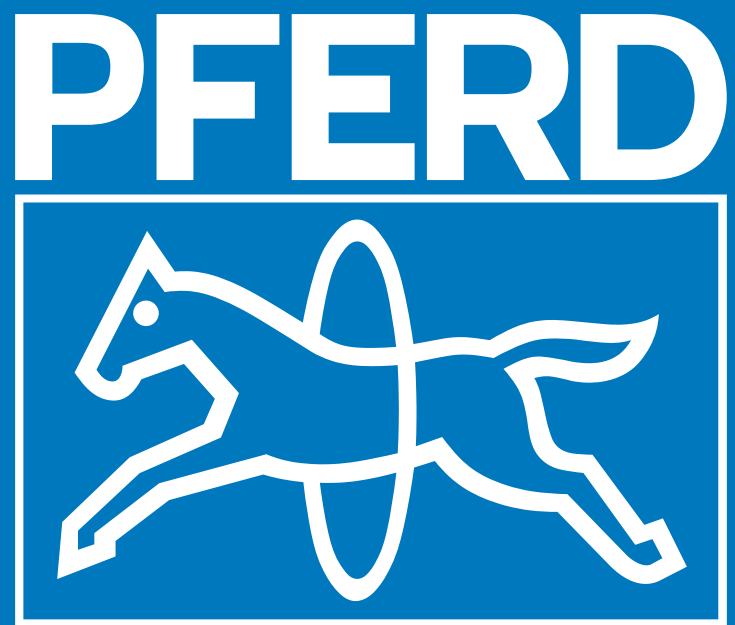
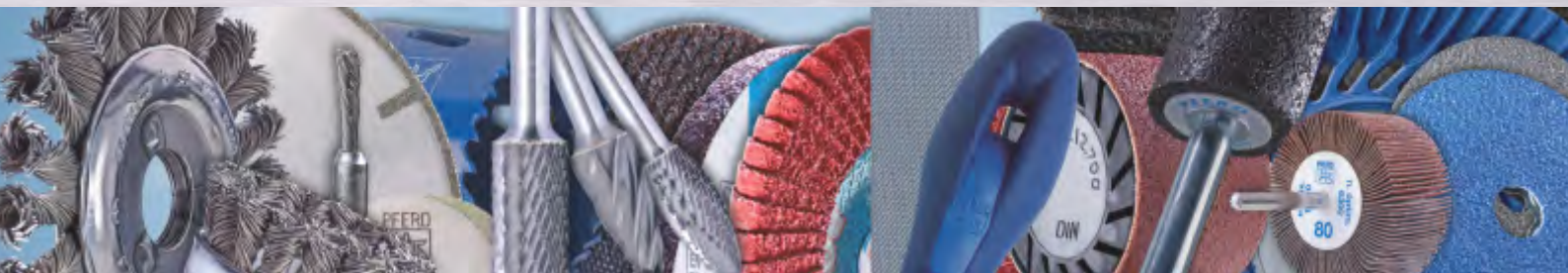


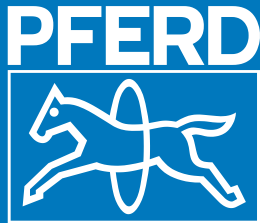


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VERTRAU BLAU Trust In The Blue



Cutting Grinding Milling Filing Brushing Polishing Deburring Finishing



Known globally for manufacturing quality abrasives. Your total abrasive solution.

The Company PFERD



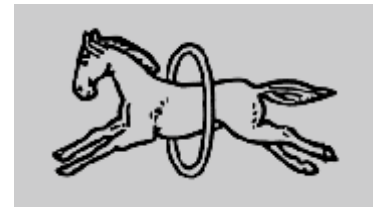
Tradition, Progress, Innovation

The company started producing files over 200 years ago. Since then, this family owned company has become one of the leading manufacturers in the tool industry. Innovative ideas and products are the key to success.



The "PFERD"

The term PFERD means 'horse' in German, and from the very beginning the "jumping horse" has been a distinctive brand known for excellent quality, top performance and efficiency. It symbolises strength, endurance and reliability. Professionals associate the name PFERD with outstanding performance.



VERTRAU BLAU - Trust In The Blue

Workers all over the world trust PFERD. This trust has been earned by the many people connected with PFERD. The unique combination of individual, target-oriented consultation and innovative high-performance tools with the skills of on-site users always guarantees customers the optimum, most economical result for every task. PFERD partners and distributors trust PFERD because the company offers innovative tools and training for safe ergonomic work in addition to its sound consultation service, making work more precise, easier and faster.



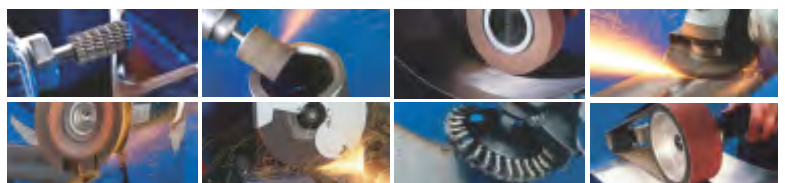
PFERD - Used In Industries

- Chemical and process industry
- Equipment, tank & pressure vessel constructions
- Steel mills, Foundries
- Tool, die and mouldmaking
- Pipeline construction
- Shipyards
- Automotive
- Structural steelwork and metalworking
- Aerospace applications, gas turbines (fabrication and maintenance)
- Mechanical engineering
- Manufacturing



PFERD - Wide Range Of Applications

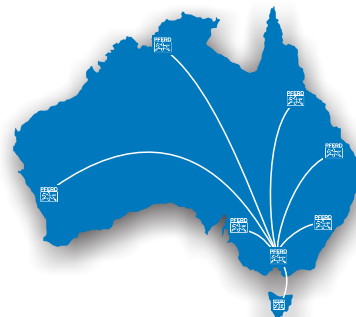
- Cutting
- Grinding
- Milling
- Filing
- Brushing
- Polishing
- Cleaning
- Rust removal
- Deburring
- Matt finishing





PFERD Australia Pty. Ltd.

Active in Australia for over 29 years PFERD has gained a reputation as a leading manufacturer of abrasive solutions. With more 7,500 products, product training, technical support, national warehousing and Australia wide service we can offer the complete solution to your needs.



Technical Know-how

The PFERD-team of technical experts work in the field to find the best solutions for your tasks on site. PFERD products are "oSa" approved and comply with Australian standards, offering you the greatest level of safety.



Professional Training & Advice

PFERD offers professional and practice-related training courses that are the foundation for mutual success. How to use PFERD products to maximise production whilst minimising costs. Advising on the correct selection and use of products to maximise safety while minimising product costs and down time. On site training also available.



Safety When Using Abrasives

Safety is key when working with abrasive products and PFERD is your partner for safe tools. As a leading manufacturer of abrasive tools, PFERD meets all requirements of national and international laws, standards, codes and guidelines. The PFERD quality management system is EN ISO 9001 certified and guarantees compliance with all regulations. The "oSa" label certifies that a given product has been manufactured to the most stringent standards in force anywhere in the world today. PFERD grinding and abrasive cut-off wheels carry the oSa label. For more safety information, refer to pages 125 & 126 of this product guide.



Commitment to Service

PFERD-employees are here to help you. We are dedicated to advising you professionally and completing your order reliably. We place great emphasis on personal contact with you and building long term business relationships.



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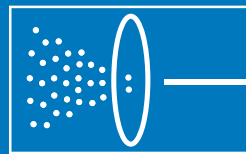
PFERD ERGONOMICS



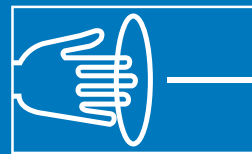
Vibration Filter



Noise Filter



Emission Filter



Haptic Filter

Contact PFERD for more information

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(1300 073 373)

www.pferd.com.au



Files

201



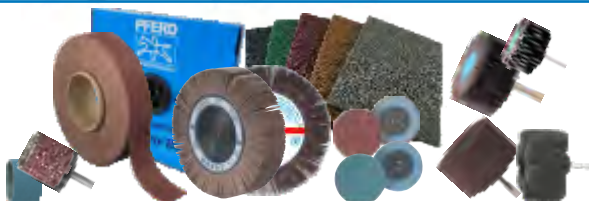
Burrs and
Hole Saws

202



Mounted Points

203



Fine Grinding
and Polishing Tools

204



Diamond
and CBN Tools

205



Grinding and
Cutting Wheels

206



Stationary and
Cut-Off Wheels

207



Industrial Power
Brushes

208



Tool Drives

209



Coated Abrasives

Coated

201 - Files



For almost 200 years, PFERD files have been renowned worldwide as a top quality product. With their consistently high cutting performance, ensuring an excellent surface quality even after long use, they reduce the cost of labour-intensive manual work. PFERD has developed a number of ideal shapes and cuts for specific applications in industry and the crafts.

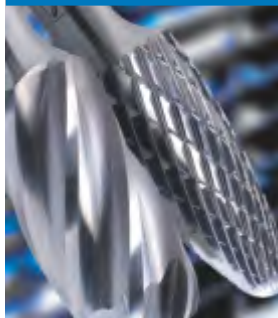
File types available

- Files for the workshop
- Wood files and rasps
- Hand deburrer
- Milled tooth files
- Precision files
- Chain Saw files
- Sharpening files
- File handles, file sleeves, file brush

PFERD stamp



202 - Burrs & Hole Saws



Burrs - Tungsten Carbide

PFERD burrs are designed for machining materials of virtually any strength. Our burrs provide exceptional impact resistance, minimising tooth chipping & breaking. Available in a variety of shank diameters to suit your tool or application.

Need high impact resistant burr for those tough applications? The Cut 3R and 3RS range are far more durable minimising tooth breakages and chipping when used in tough applications such as steel fabrication, foundries and dockyards. Cut ALU developed for aluminium and coarse grinding work on non-ferrous metals. Cut INOX has been developed for those INOX stainless steel applications. Cut MC Micro Burrs designed for exceptional results at very high RPM speeds.

Cut 1



Cut 3



Cut 3 PLUS



Cut 4



Cut 5



Specialty Cuts

Cut 3R



Cut 3RS



Cut ALU



Cut ALU PLUS



Cut INOX



Cut MC



Hole Saws - HSS Bi-Metal

PFERD HSS 'high speed steel' Bi-Metal hole saws can be used for cutting steel, stainless steel, aluminium, cast iron, copper, wood, plastic and many other materials. The alternating tooth pitch prevents chattering during use. Select from a wide range of sizes or popular sets. Hole saw arbors and accessories are also available separately.

Individual Hole Saws

Available in sizes 14mm to 152mm.



Hole Saw Kits

Available in 7, 9, and 13pcs kits. The sets are neatly arranged in a protective plastic box.



203 Mounted Points

PFERD offers a very extensive line of vitrified and resinoid-bonded mounted points. Designed to meet individual application needs, these products come in a broad range of grain types, grit sizes, hardness levels and shapes. The mounted points are manufactured on advanced production lines to high standards of dimensional accuracy and stability, consistent quality, and close tolerances.



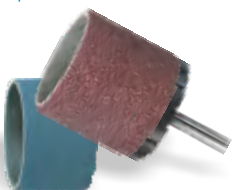
Available Sets

- 10pcs Assorted Points (6mm Shank)
- 15pcs Assorted Points (3mm Shank)
- 100pcs Assorted Points (1/4" Shank)

204 Fine Grinding & Polishing Tools

Achieve the perfect end result with every job. PFERD's 204 range suits stainless steel, aluminium, plastic and many other materials. We can help you to find the right fine grinding and polishing tool to suit the application. For more information on the complete range of fine grinding & polishing items contact PFERD.

Spiral Bands



Policap®



Fan Grinders



Poliroll®



Flap Wheels



Poliflap®



Economy Rolls



Polistar - Inner Surfaces of Bores & Pipes



Combidisc® Mini-Polifan®



Polinox® Mounted Points



Polinox® Grinding Drum



Polinox® Ring Wheels



Combidisc® CD & CDR



Polivlies® Flap Discs



Policlean® Disc & Mounted



Polivlies® Hand Pads



205 Diamond & CBN Tools



PFERD Australia offers a range of diamond and CBN products which includes specialty files and diamond grinding points. In addition to this range PFERD also specialises in the customer specific manufacture of electroplated, resinoid, ceramic and metal bonded diamond and CBN tools.

Advantages of using diamond include: superior product life and dimensional stability as well as it avoids thermal damage to the workpiece due to low grinding temperatures.

Diamond Product Range

- File Sets
- Handy files
- Needle files
- Grinding Points



206 Grinding & Cutting Wheels



PFERD offers an outstanding range of quality cutting and grinding products. Years of experience working with different industry applications has led to the development of new items that suit today's requirements. Unique products like the Polifan® Curve, the Polifan® Strong, DUODISC® and the Combiclick® range, which have changed working with metal as you know it. Note, discs are also colour coded to suit different materials.

Grinding Wheels

A range of sizes and types to grind steel, cast iron, stainless steel (INOX) and aluminium.



Cutting Wheels

A range of sizes, types & thicknesses from 1.0mm to cut steel, stainless steel (INOX), aluminium and stone.



Polifan® (Flap Discs)

A wide range of grinding flap discs suit steel, stainless steel (INOX) and aluminium and more. Try the Polifan® Strong for high stock removal & Polifan® Curve for fillet weld applications.



DUODISC®

An amazing 2 in 1 grinding disc that can be used for cutting as well. Sizes 4", 4 1/2" & 5". In 1.9 & 2.8 thickness



Diamond Cut-off Wheels

Select either general purpose or premium segmented, turbo and continuous-rim diamond cut-off wheels. Sizes 4", 4 1/2" 5", 7", 9", 12", 14" & 16". High diamond concentration.



COMBICLICK® GRIND & FINISH METAL

1 Mounting System



2 Fibre Disc



CC-GRIND-SOLID GRIND METAL New Grinding Disc



207 Stationary & Cut-Off Wheels

PFERD stationary cut-off wheels are available for use on universal cutting process to suit all steels, cast iron, non-ferrous metal alloys and special alloys. Providing easy cutting of steels which cannot be sawn or flame cut. Consistent cutting quality over the entire cut-off wheel lifetime until it is completely used, due to the continuous self-sharpening process. A cost effective option to any cutting procedure.

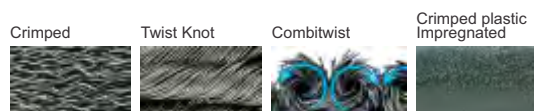
Stationary Cut-Off Wheel Range

- Low speed general purpose and premium wheels - 80mtr/sec to suit 240v chop saws (steel & INOX)
- High speed stationary cutting wheels - 100mtr/sec to suit 3 phase saws
- High speed portable cutting wheels to suit portable engine driven saws (steel, stone & rail)



208 Industrial Power Brushes

PFERD industrial power brushes are quality products used for surface machining. We offer a comprehensive range of high quality brushes in both INOX or mild steel to suit professional brushing of various materials and applications.



Shaft Mounted & Specialty Brushes



KBG Flared Cup Brushes

Cup Brushes

Wheel Brush To Suit M14 Thread

Bench Grinder Wire Brushes With Arbor Hole

RBG Wheel Brush

Pipeliners Brushes



Block Brushes

Hand Scratch Brushes



209 Tool Drives



The PFERD product range also includes both air and electric powered tools for hand held applications such as grinding, milling, brushing, cutting and polishing. One of the most important factors that helps you to achieve cost effective working methods is selecting the correct tool. PFERD offers high quality units to suit most metal working applications.

Air Tool Range:

- Marking / Engraving Pen
- Straight Pencil Grinders
- Right Angle Die Grinders
- Straight Die Grinder
- Angle Grinder

Electric Tool Range:

- Straight Grinders
- Pipe Belt Grinder
- Drum Grinder
- Angle Grinder
- Multi-Speed Mammoth



Coated Abrasives



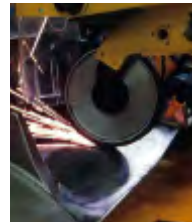
Paper & Cloth Backed Abrasive Products

PFERD offers a wide range of coated abrasives, covering made-to-order products that best suit your application or alternatively you can choose from a variety of standard stocked lines.

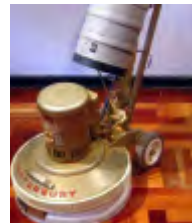
Find the most cost effective option with PFERD. Our abrasive specialists can help you to identify the most suitable abrasive product from our range of aluminum oxide, zirconia, ceramic and diamond materials. We also supply accessories including backing pads, belt restorers, slip cloth, sanding sponges and much more.



Metalwork



Woodwork



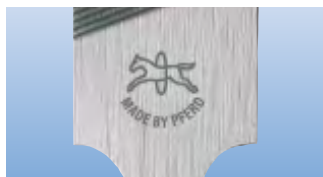
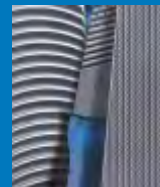
Metal

- Portable Belts
- File Sander Belts
- Stroke Sanding
- Coil Grinding
- Backstand Grinding
- Dome Grinding
- Flat Bar Grinding
- Pipe & Tube Grinding
- Roll Grinding
- Sheet Grinding
- Turbine Grinding
- Centreless Polishing
- Flat Bar Polishing
- Metal Polishing
- Robotics
- Multi Tool Belts
- Discs Grinding & Finishing
- Pattern Making

Wood

- Portable Belts
- Stroke Sanding Belts
- Wide Belts
- Polyvacs
- Edger Discs
- Floor Sanding Belts
- Drum Grinding
- Edge Grinding
- Profile Radius Grinding

Contact PFERD for special applications or more information regarding belts made to order.

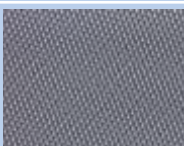


For almost 200 years, PFERD files have been renowned worldwide as a top quality product. With their constantly high cutting performance, ensuring an excellent surface quality even after long use, they reduce the cost of labour-intensive manual work and will thus provide significant economic benefits. Even after long use, PFERD files have an excellent quality finish.

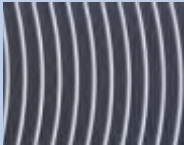
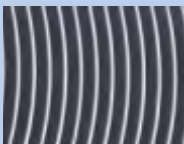
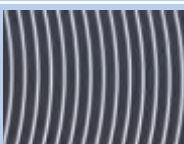
From two centuries of experience as partner to the metalworking industry, PFERD has developed a number of ideal file shapes and cuts for specific applications in industry and the crafts.

Cut Types

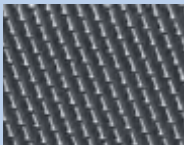
Files for the workshop

Cut 1		Cross cut Suitable for coarse machining and for coarse stock removal.
Cut 2		Cross cut For universal coarse stock removal and prefinishing.
Cut 3		Cross cut For fine work and prefinishing.

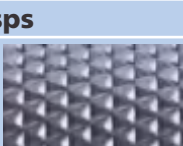
Car body files

Cut 1		Radial tooth cut Suitable for coarse stock removal and roughing. Creates score-free surfaces.
Cut 2		Radial tooth cut For universal coarse stock removal and smoothing. Creates score-free surfaces.
Cut 3		Radial tooth cut Suitable for fine stock removal and for prefinishing. Creates score-free surfaces.

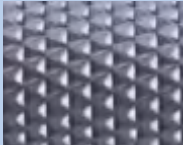
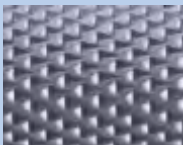
Milled tooth files

Cut 1		Straight tooth cut Suitable for coarse stock removal when working on soft metals. The shape of the milled tooth and large flutes prevent clogging problems.
Cut 2		Straight tooth cut Suitable for universal coarse stock removal and prefinishing on soft metals. The shape of the milled tooth and large flutes prevent clogging problems.
Cut 3		Straight tooth cut Suitable for coarse machining of soft metals. The shape of the milled tooth and large flutes prevent clogging problems.

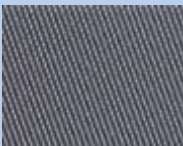
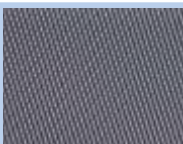
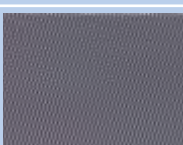
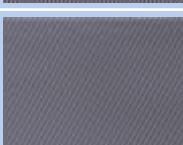
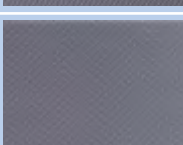
Sharpening files

Single cut		Single cut For universal sharpening.
Cut 2		

Wood rasps

Cut 1		Rasp cut Suitable for coarse machining and for coarse stock removal.
Cut 2		Rasp cut For universal coarse stock removal and prefinishing.
Cut 3		Radial cut For fine work and prefinishing.

Precision files

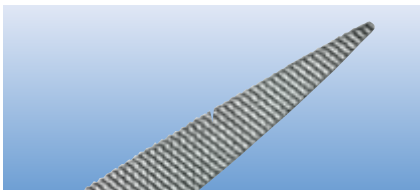
Cut 00		Cross cut Suitable for very coarse precision work.
Cut 0		Cross cut Suitable for very coarse precision work.
Cut 1		Cross cut Suitable for medium precision work.
Cut 2		Cross cut Suitable for medium to fine precision work.
Cut 3		Cross cut Suitable for fine precision work.
Cut 4		Cross cut Suitable for very fine precision work.

Several criteria determine the quality of a PFERD product



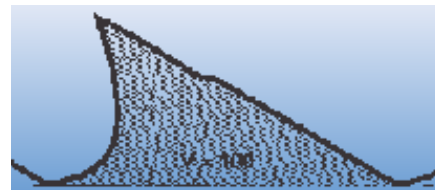
An appropriate steel microstructure, essential for uniform hardness

The various production steps (profiling in the rolling mill, shaping of blanks and tangs, annealing processes prior to cutting, final heat treatment) each cause a change in the microstructure of the steel. Throughout these treatments, it is essential to maintain a high carbon content to ensure the requisite hardness and cutting performance of the file.



Exact shape and uniform cut from tang to tip

Blanks acquire their exact shape, indispensable for an appropriate performance, through a series of forging and grinding operations. Equally spaced teeth and a uniform depth of cut ensure good fling results and surface finishes. The type and angle of the cut depend on the purpose for which the file is intended.



Ideal tooth geometries for every application

Tooth forms suitable to a particular application ensure a uniform stock removal capability. There is no such thing as a standard tooth shape. Different cut geometries have been derived as the optimum solution to a variety of applications. The illustration shows a car body file profile with its typical rounded tooth face and large interspace.

The number of teeth of PFERD files listed in our catalogue 201 conforms to DIN 8349 requirements. The figure shows the number of cuts per cm of file length, counted in the longitudinal axis. For a double-cut file, the teeth number is determined by the upper cut (second course).

Teeth number per cm of cut files according to DIN 8349

Length (with- out tang) [mm]	Machinist's files Cut numbers $\pm 8\%$			Sharpening files Cut numbers $\pm 5\%$					
	Cut 1-B Bastard	Cut 2 half-smooth	Cut 3-S smooth	regular	slim	Extra slim	Double Extra slim	Mill Saw Files	
								Cut 1	Cut 2
100	17	22	28	20	23	26	–	–	–
125	–	–	–	19	22	24	25	–	–
150	13	18	22	17	20	22	24	20	24
175	–	–	–	16	19	21	23	–	–
200	10	14	18	15	17	20	22	18	20
250	9	12	16	14	16	17	–	16	18
300	8	11	14	–	–	–	–	14	16
350	7	10	13	–	–	–	–	12	14

cut 1 = coarse / Cut 2 = medium / Cut 3 = fine

Colour code for the file cut

The individual cuts are additionally identified by colour-coded package labels.

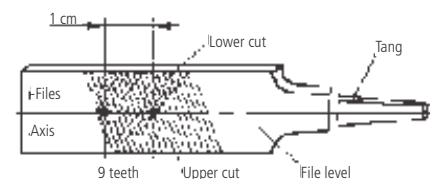
Cut 1 = green Cut 2 = yellow Cut 3 = red



Overview of file designations according to DIN

Designation DIN	Shape symbol	Machinist's files 7261	Sharpening files 7262	Resps 7263	Cabinet files 7264	Milled tooth files 7264	Key files 7283
Hand		A	E, F	A, B		A, E	A
Flat		B					B
Three square		C	A, B, C, D				C
Square		D				B	D
Half round		E		C, D	F	D, F	E
Round		F		E		C	F
Knife files		G	G				
Lathe files		H					

Determination of teeth number



Example:

At a length of 250 mm, a cut 1 file has 9 teeth/cm. A 100 mm long file of the same cut has 17 teeth/cm of file length. The higher number of teeth found on shorter files is intended to provide the same ease of use (in terms of force input, guidability and stock removal) on surfaces and edges as a longer tool.

Dimensions



The cross-sectional dimensions indicated in the tables are measured across the cut and may vary depending on cut type. PFERD files are manufactured according to DIN and ISO standards.



PRODUCT DESCRIPTION	PAGE
Machinist's Files - Hand	9
Plain Files - No Handle	9
Plain Files - With Handle	9
Machinist's Files - Flat	10
Flat Plain Files - No Handle	10
Flat Plain Files - With Handle	10
Machinist's Files - 3 Square	10
3 Square Files - No Handle	10
3 Square Files - With Handle	10
Machinist's Files - Square	11
Square Files - No Handle	11
Square Files - With Handle	11
Machinist's Files - Half Round	11
Half Round Files Tapered - No Handle	11
Half Round Files - With Handle	11
Machinist's Files - Round	12
Round Files - No Handle	12
Round Files - With Handle	12

PRODUCT DESCRIPTION	PAGE
Machinist's Files - Knife	12
Knife File - No Handle	12
Machinist's Files - PLUS Type	12
PLUS Type Files - With Handle	12
Machinist's Files - Sets	13
Machinist's Files - Aluminium & Brass	13
Files For Aluminium & Brass	13
Lathe Files	13
Special Files	13
Key (Warding) Files	13
Tungsten Point File	13
Car Body Files	13
Milled Tooth Files	13
Horse Files	13
Saw Sharpening Files	14
Saw Sharpening Files - Slim Taper	14
Saw Sharpening Files - With Handle	14

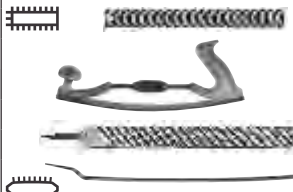
PRODUCT DESCRIPTION	PAGE
Extra Slim Taper Files	14
Extra Slim Tapper File - With Handle	14
Ultra Slim Taper Files	14
Cantsaw File	14
Knife Sharpening File	14
Feather Edge File	14
Sharpening Files	14
Mill Saw Files	14
Mill Saw Files - With Handle	15
Chain Saw Files	15
Precision Files	15
Needle Files	15
Swiss Cut Files - Half Round	15
Riffler Files	16
Accessories	16
File Handles	16
File Cleaning Brush	16

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image	
Machinist's Files - Hand							
Plain Files - No Handle - Bulk Packed							
100	1112 100 mm C1	11101101	4007220005606	10	\$7.52		
100	1112 100 mm C2	11101102	4007220005613	10	\$7.60		
100	1112 100 mm C3	11101103	4007220005620	10	\$8.33		
150	1112 150 mm C1	11101151	4007220005637	10	\$7.52		
150	1112 150 mm C2	11101152	4007220005644	10	\$7.78		
150	1112 150 mm C3	11101153	4007220005651	10	\$8.28		
200	1112 200 mm C1	11101201	4007220005668	10	\$9.40		
200	1112 200 mm C2	11101202	4007220005675	10	\$10.04		
200	1112 200 mm C3	11101203	4007220005682	10	\$11.06		
250	1112 250 mm C1	11101251	4007220005699	10	\$12.68		
250	1112 250 mm C2	11101252	4007220005705	10	\$13.00		
250	1112 250 mm C3	11101253	4007220005712	10	\$14.72		
300	1112 300 mm C1	11101301	4007220005729	5	\$16.24		
300	1112 300 mm C2	11101302	4007220005736	5	\$17.68		
300	1112 300 mm C3	11101303	4007220005743	5	\$19.12		
350	1112 350 mm C1	11101351	4007220005750	5	\$23.00		
350	1112 350 mm C2	11101352	4007220005767	5	\$23.76		
Plain Files - With Handle - Individual Display Pack							
150	PF 1112 150 mm C1	11210156	4007220541388	1	\$13.50		
150	PF 1112 150 mm C2	11210157	4007220541432	1	\$13.72		
150	PF 1112 150 mm C3	11210158	4007220541463	1	\$14.30		
200	PF 1112 200 mm C1	11210206	4007220541494	1	\$16.56		
200	PF 1112 200 mm C2	11210207	4007220541524	1	\$17.28		
200	PF 1112 200 mm C3	11210208	4007220541555	1	\$17.78		
250	PF 1112 250 mm C1	11210256	4007220541586	1	\$20.66		
250	PF 1112 250 mm C2	11210257	4007220541623	1	\$21.38		
250	PF 1112 250 mm C3	11210258	4007220541647	1	\$23.00		
300	PF 1112 300 mm C1	11210306	4007220541661	1	\$26.64		
300	PF 1112 300 mm C2	11210307	4007220541678	1	\$28.16		
300	PF 1112 300 mm C3	11210308	4007220541685	1	\$29.52		

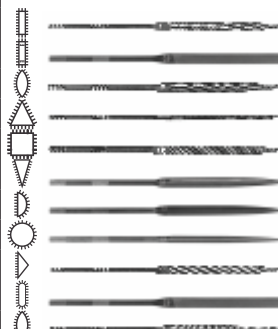
Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Machinist's Files - Flat						
Flat Plain Files - No Handle - Bulk Packed						
100	1122 100 mm C1	11103101	4007220005811	10	\$6.26	 
100	1122 100 mm C2	11103102	4007220005828	10	\$5.66	
100	1122 100 mm C3	11103103	4007220005835	10	\$7.52	
150	1122 150 mm C1	11103151	4007220005842	10	\$7.38	
150	1122 150 mm C2	11103152	4007220005859	10	\$7.78	
150	1122 150 mm C3	11103153	4007220005866	10	\$8.10	
200	1122 200 mm C1	11103201	4007220005873	10	\$9.22	
200	1122 200 mm C2	11103202	4007220005880	10	\$9.80	
200	1122 200 mm C3	11103203	4007220005897	10	\$10.34	
250	1122 250 mm C1	11103251	4007220005903	10	\$12.68	
250	1122 250 mm C2	11103252	4007220005910	10	\$13.10	
250	1122 250 mm C3	11103253	4007220005927	10	\$14.04	
300	1122 300 mm C1	11103301	4007220005934	5	\$16.24	
300	1122 300 mm C2	11103302	4007220005941	5	\$17.90	
300	1122 300 mm C3	11103303	4007220005958	5	\$18.80	
350	1122 350 mm C1	11103351	4007220005965	5	\$23.76	
Flat Plain Files - With Handle - Individual Display Pack						
150	PF 1122 150 mm C1	11216156	4007220669341	1	\$15.02	 
150	PF 1122 150 mm C2	11216157	4007220669358	1	\$15.12	
150	PF 1122 150 mm C3	11216158	4007220669365	1	\$15.74	
200	PF 1122 200 mm C1	11216206	4007220669372	1	\$16.96	
200	PF 1122 200 mm C2	11216207	4007220669389	1	\$17.28	
200	PF 1122 200 mm C3	11216208	4007220669396	1	\$18.00	
250	PF 1122 250 mm C1	11216256	4007220669402	1	\$20.02	
250	PF 1122 250 mm C2	11216257	4007220669419	1	\$20.42	
250	PF 1122 250 mm C3	11216258	4007220669426	1	\$21.56	
300	PF 1122 300 mm C1	11216306	4007220669433	1	\$25.64	
300	PF 1122 300 mm C2	11216307	4007220669440	1	\$26.64	
300	PF 1122 300 mm C3	11216308	4007220669457	1	\$27.50	
Machinist's Files - 3 Square						
3 Square Files - No Handle - Bulk Packed						
100	1132 100 mm C1	11108101	4007220006603	10	\$7.88	 
100	1132 100 mm C2	11108102	4007220006610	10	\$8.10	
100	1132 100 mm C3	11108103	4007220006627	10	\$8.36	
150	1132 150 mm C1	11108151	4007220006641	10	\$8.10	
150	1132 150 mm C2	11108152	4007220006658	10	\$8.82	
150	1132 150 mm C3	11108153	4007220006665	10	\$9.54	
200	1132 200 mm C1	11108201	4007220006672	10	\$10.84	
200	1132 200 mm C2	11108202	4007220006689	10	\$11.34	
200	1132 200 mm C3	11108203	4007220006696	10	\$12.20	
250	1132 250 mm C1	11108251	4007220006702	10	\$16.56	
250	1132 250 mm C2	11108252	4007220006719	10	\$16.96	
250	1132 250 mm C3	11108253	4007220006726	10	\$18.50	
300	1132 300 mm C1	11108301	4007220006733	5	\$21.74	
300	1132 300 mm C2	11108302	4007220006740	5	\$22.58	
3 Square Files - With Handle - Individual Display Pack						
150	PF 1132 150 mm C1	11211156	4007220541692	1	\$16.46	 
150	PF 1132 150 mm C2	11211157	4007220541708	1	\$16.82	
150	PF 1132 150 mm C3	11211158	4007220541715	1	\$17.28	
200	PF 1132 200 mm C1	11211206	4007220541722	1	\$20.20	
200	PF 1132 200 mm C2	11211207	4007220541739	1	\$20.66	
200	PF 1132 200 mm C3	11211208	4007220541746	1	\$21.56	
250	PF 1132 250 mm C1	11211256	4007220541753	1	\$26.86	
250	PF 1132 250 mm C2	11211257	4007220541760	1	\$28.08	

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image	
Machinist's Files - Square						 	
Square Files - No Handle - Bulk Packed							
100	1142 100 mm C1	11104101	4007220006009	10	\$7.52		
100	1142 100 mm C2	11104102	4007220006016	10	\$7.70		
100	1142 100 mm C3	11104103	4007220006023	10	\$8.10		
150	1142 150 mm C1	11104151	4007220006030	10	\$7.88		
150	1142 150 mm C2	11104152	4007220006047	10	\$8.72		
150	1142 150 mm C3	11104153	4007220006054	10	\$9.04		
200	1142 200 mm C1	11104201	4007220006061	10	\$10.04		
200	1142 200 mm C2	11104202	4007220006078	10	\$10.58		
200	1142 200 mm C3	11104203	4007220006085	10	\$11.48		
250	1142 250 mm C1	11104251	4007220006092	10	\$12.78		
250	1142 250 mm C2	11104252	4007220006108	10	\$13.72		
250	1142 250 mm C3	11104253	4007220006115	10	\$14.72		
300	1142 300 mm C1	11104301	4007220006122	5	\$18.58		
300	1142 300 mm C2	11104302	4007220006139	5	\$20.02		
Square Files - With Handle - Individual Display Pack							 
150	PF 1142 150 mm C1	11212156	4007220541777	1	\$14.22		
150	PF 1142 150 mm C2	11212157	4007220541784	1	\$15.02		
200	PF 1142 200 mm C1	11212206	4007220541791	1	\$17.42		
200	PF 1142 200 mm C2	11212207	4007220541807	1	\$18.18		
250	PF 1142 250 mm C1	11212256	4007220541814	1	\$21.06		
250	PF 1142 250 mm C2	11212257	4007220541838	1	\$22.04		
Machinist's Files - Half Round						 	
Half Round Files Tapered - No Handle - Bulk Packed							
100	1152 SP 100 mm C1	11105101	4007220006160	10	\$14.22		
100	1152 SP 100 mm C2	11105102	4007220006177	10	\$14.22		
100	1152 SP 100 mm C3	11105103	4007220006184	10	\$14.94		
150	1152 SP 150 mm C1	11125151	4007220006955	10	\$12.02		
150	1152 SP 150 mm C2	11125152	4007220006962	10	\$12.20		
150	1152 SP 150 mm C3	11125153	4007220006979	10	\$12.78		
200	1152 SP 200 mm C1	11125201	4007220006986	10	\$13.50		
200	1152 SP 200 mm C2	11125202	4007220006993	10	\$14.22		
200	1152 SP 200 mm C3	11125203	4007220007006	10	\$14.62		
250	1152 SP 250 mm C1	11125251	4007220007013	10	\$18.50		
250	1152 SP 250 mm C2	11125252	4007220007020	10	\$19.22		
250	1152 SP 250 mm C3	11125253	4007220007037	10	\$20.02		
300	1152 SP 300 mm C1	11125301	4007220007044	5	\$24.02		
300	1152 SP 300 mm C2	11125302	4007220007051	5	\$25.02		
300	1152 SP 300 mm C3	11125303	4007220007068	5	\$25.74		
350	1152 SP 350 mm C1	11125351	4007220222355	5	\$32.04		
Half Round Files - With Handle - Individual Display Pack							 
150	PF 1152 150 mm C1	11213156	4007220541845	1	\$18.68		
150	PF 1152 150 mm C2	11213157	4007220541852	1	\$19.12		
150	PF 1152 150 mm C3	11213158	4007220541869	1	\$19.80		
200	PF 1152 200 mm C1	11213206	4007220541876	1	\$22.28		
200	PF 1152 200 mm C2	11213207	4007220541883	1	\$22.90		
200	PF 1152 200 mm C3	11213208	4007220541890	1	\$24.62		
250	PF 1152 250 mm C1	11213256	4007220541906	1	\$29.02		
250	PF 1152 250 mm C2	11213257	4007220541920	1	\$29.84		
250	PF 1152 250 mm C3	11213258	4007220541937	1	\$31.04		
300	PF 1152 300 mm C1	11213306	4007220541944	1	\$36.76		

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image	
Machinist's Files - Round							
Round Files - No Handle - Bulk Packed							
100	1162 100 mm C1	11107101	4007220006405	10	\$7.28	 	
100	1162 100 mm C2	11107102	4007220006412	10	\$7.60		
100	1162 100 mm C3	11107103	4007220006429	10	\$7.88		
150	1162 150 mm C1	11107151	4007220006467	10	\$6.16		
150	1162 150 mm C2	11107152	4007220006474	10	\$6.44		
150	1162 150 mm C3	11107153	4007220006481	10	\$7.28		
200	1162 200 mm C1	11107201	4007220006498	10	\$6.88		
200	1162 200 mm C2	11107202	4007220006504	10	\$7.52		
200	1162 200 mm C3	11107203	4007220006511	10	\$7.78		
250	1162 250 mm C1	11107251	4007220006528	10	\$8.90		
250	1162 250 mm C2	11107252	4007220006535	10	\$9.90		
250	1162 250 mm C3	11107253	4007220006542	10	\$10.76		
300	1162 300 mm C1	11107301	4007220006559	5	\$12.68		
300	1162 300 mm C2	11107302	4007220006566	5	\$13.58		
300	1162 300 mm C3	11107303	4007220006573	5	\$14.72		
350	1162 350 mm C1	11107351	4007220006580	5	\$16.16		
Round Files - With Handle - Individual Display Pack							
150	PF 1162 150 mm C1	11214156	4007220541951	1	\$12.86	 	
150	PF 1162 150 mm C2	11214157	4007220541968	1	\$13.72		
150	PF 1162 150 mm C3	11214158	4007220541982	1	\$14.44		
200	PF 1162 200 mm C1	11214206	4007220541999	1	\$15.66		
200	PF 1162 200 mm C2	11214207	4007220542002	1	\$16.56		
200	PF 1162 200 mm C3	11214208	4007220542019	1	\$17.50		
250	PF 1162 250 mm C1	11214256	4007220542026	1	\$19.70		
250	PF 1162 250 mm C2	11214257	4007220542040	1	\$20.66		
250	PF 1162 250 mm C3	11214258	4007220542057	1	\$21.86		
300	PF 1162 300 mm C1	11214306	4007220542064	1	\$25.10		
Machinist's Files - Knife							
Knife File - No Handle - Bulk Packed							
200	1172 200 mm C2	11109202	4007220006832	10	\$15.74	 	
Machinist's Files - PLUS Type							
PLUS Type Files - With Handle - Bulk Packed							
250	1112 PH 250 mm PLUS	11215256	4007220542095	5	\$21.24	 	
300	1112 PH 300 mm PLUS	11215306	4007220006948	5	\$26.54		

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Machinist's Files - Sets						
Files In Plastic Roll Pouch Packaged (5 Piece Set)						
200	Roll Case 531 WRU (Cut 1)	11801531	4007220807972	1	\$69.30	
200	Roll Case 532 WRU (Cut 2)	11801532	4007220807989	1	\$74.24	
250	Roll Case 541 WRU (Cut 1)	11801541	4007220808009	1	\$89.10	
250	Roll Case 542 WRU (Cut 2)	11801542	4007220808016	1	\$91.08	
250	Roll Case 543 WRU (Cut 3)	11801543	4007220808023	1	\$116.82	
Machinist's Files - Aluminium & Brass						
Files For Aluminium & Brass						
250	1612 W 250 mm C0	11102250	4007220005798	10	\$22.50	
300	1612 W 300 mm C0	11102300	4007220005804	5	\$35.00	
Lathe Files						
250	1612 DE 250 mm C1	12119253	4007220011713	10	\$30.51	
300	1612 DE 300 mm C1	12119303	4007220011720	5	\$39.45	
Special Files						
Key (Warding) Files						
100	1117 100 mm C2	11502102	4007220010624	10	\$7.70	
150	1117 150 mm C2	11502152	4007220010648	10	\$15.30	
100	1127 100 mm C2	11501102	4007220010532	10	\$7.70	
150	1127 150 mm C2	11501152	4007220010563	10	\$14.54	
100	1137 100 mm C2	11505102	4007220010693	10	\$8.50	
100	1147 100 mm C2	11506102	4007220010716	10	\$8.18	
100	SET 265 K 100 mm C2	11700265	4007220011362	1	\$74.48	
Tungsten Point File						
100	1118 A 100 mm C2	11509150	4007220010747	10	\$8.90	
Car Body Files						
350	299 B 350 mm C00	14101357	4007220016268	1	\$84.96	
350	299 B 350 mm C0	14101350	4007220016220	1	\$84.96	
350	299 B 350 mm C1	14101351	4007220016237	1	\$82.40	
350	299 B 350 mm C2	14101352	4007220016244	1	\$88.56	
350	299 B 350 mm C3	14101353	4007220016251	1	\$93.84	
350	299 E 350 mm SC	14107359	4007220016312	1	\$75.28	
	File Holder BH 125/350 350 mm	14202350	4007220016381	1	\$166.72	
350	299 C 350 mm C3	14103353	4007220016299	1	\$75.44	
Milled Tooth Files						
300	290 300 mm C1	13101301	4007220015650	1	\$65.76	
350	290 350 mm C1	13101351	4007220015681	1	\$83.84	
Horse Files						
350	Horse Shoe File 3515 350 mm	13180350	4007220809631	1	\$123.20	
350	Horse Rasp 3510 350 mm C1	11313351	4007220009901	1	\$107.20	

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Special Files (continued)						
Saw Sharpening Files - Regular Taper						
150	1232 150 mm C2	11401152	4007220010327	10	\$7.38	
250	1232 250 mm C2	11401252	4007220010358	10	\$17.18	
Saw Sharpening Files - Slim Taper						
100	1237 100 mm C2	11402102	4007220010365	10	\$5.84	
125	1237 125 mm C2	11402122	4007220010389	10	\$6.16	
150	1237 150 mm C2	11402152	4007220010396	10	\$6.44	
175	1237 175 mm C2	11402182	4007220010402	10	\$7.78	
200	1237 200 mm C2	11402202	4007220010419	10	\$9.40	
Saw Sharpening Files - With Handle - Individual Display Pk						
125	PF 1237 125 mm C2	11275127	4007220542361	1	\$13.28	
150	PF 1237 150 mm C2	11275157	4007220542378	1	\$14.30	
Extra Slim Taper Files						
100	1238 100 mm C2	11403102	4007220010426	10	\$5.94	
125	1238 125 mm C2	11403122	4007220010440	10	\$8.46	
150	1238 150 mm C2	11403152	4007220010457	10	\$8.82	
Extra Slim Taper File - With Handle - Individual Display Pk						
150	PF 1238 150 mm C2	11277157	4007220542408	1	\$14.44	
Ultra Slim Taper Files						
125	1239 125 mm C2	11404122	4007220328286	10	\$6.44	
200	1239 200 mm C2	11404202	4007220328316	10	\$10.48	
Cantsaw File						
200	1230 200 mm C2	11633202	4007220011171	10	\$16.74	
Knife Sharpening File						
250	1272 250 mm C2	11604253	4007220010860	10	\$69.66	
Feather Edge File						
200	305 200 mm C2	11605203	4007220010884	10	\$37.04	
Sharpening Files						
Mill Saw Files						
200	1212 200 mm C2 (2 Square Edges)	11607203	4007220010914	10	\$10.76	
250	1212 250 mm C2 (2 Square Edges)	11607253	4007220010921	10	\$14.54	
300	1212 300 mm C2 (2 Square Edges)	11607303	4007220010938	10	\$21.38	
200	1212 gr 200 mm C2 (1 Round Edge)	11608203	4007220010952	10	\$11.24	
250	1212 gr 250 mm C2 (1 Round Edge)	11608253	4007220010976	10	\$16.64	
300	1212 gr 300 mm C2 (1 Round Edge)	11608303	4007220010983	10	\$24.34	
250	1212 r 250 mm C2 (2 Round Edges)	11609253	4007220011027	10	\$18.44	
300	1212 r 300 mm C2 (2 Round Edges)	11609303	4007220011034	10	\$25.02	
150	1212 SP 150 mm C1 (Tapered US Type)	11904151	4007220011546	10	\$8.36	
150	1212 SP 150 mm C3 (Tapered US Type)	11904153	4007220011560	10	\$9.40	
200	1212 SP 200 mm C1 (Tapered US Type)	11904201	4007220011577	10	\$10.62	
200	1212 SP 200 mm C2 (Tapered US Type)	11904202	4007220011584	10	\$10.76	
200	1212 SP 200 mm C3 (Tapered US Type)	11904203	4007220011591	10	\$10.76	
250	1212 SP 250 mm C1 (Tapered US Type)	11904251	4007220011607	10	\$13.94	
250	1212 SP 250 mm C2 (Tapered US Type)	11904252	4007220011614	10	\$14.54	
250	1212 SP 250 mm C3 (Tapered US Type)	11904253	4007220011621	10	\$14.54	
300	1212 SP 300 mm C1 (Tapered US Type)	11904301	4007220011638	10	\$20.56	
300	1212 SP 300 mm C2 (Tapered US Type)	11904302	4007220011645	10	\$21.38	
300	1212 SP 300 mm C3 (Tapered US Type)	11904303	4007220011652	10	\$21.38	

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image	
Sharpening Files - Mill Saw Files							
PF Files - With Handle - Individual Display Pack							
200	PF 1212 gr 200 mm C2	11270208	4007220542248	1	\$24.34	  gr r	
200	PF 1212 r 200 mm C2	11271208	4007220542255	1	\$25.74		
250	PF 1212 r 250 mm C2	11271258	4007220542279	1	\$31.86		
Sharpening Files - Chain Saw Files							
Chain Saw Files							
3.5	412 200 x 3.5 mm	11004153	4007220005194	6	\$2.60	  Box - 6 Pieces	
4	412 200 x 4.0 mm	11016203	4007220005217	6	\$2.60		
4	412 200 x 4.0 mm Smooth	11031203	4007220629079	6	\$2.60		
4.5	412 200 x 4.5 mm	11017203	4007220005224	6	\$2.60	 Carton - 60 Pieces	
4.5	412 200 x 4.5 mm Smooth	11032203	4007220629086	6	\$9.36		
4.8	412 200 x 4.8 mm	11018203	4007220005231	6	\$2.60		
4.8	412 200 x 4.8 mm Smooth	11033203	4007220629093	6	\$2.60	 Outer - 600 Pieces	
5.16	412 200 x 5.16 mm	11020203	4007220005248	6	\$2.60		
5.16	412 200 x 5.16 mm Smooth	11034203	4007220629109	6	\$9.36		
5.5	412 200 x 5.5 mm	11022203	4007220005255	6	\$2.60	 Skin Pack - 2 Pieces	
5.5	412 200 x 5.5 mm Smooth	11035203	4007220629116	6	\$2.60		
6.3	412 200 x 6.3 mm	11024203	4007220005262	6	\$4.32		
7	412 200 x 7.0 mm	11026203	4007220005279	6	\$4.32		
7.9	412 200 x 7.9 mm	11028203	4007220005286	6	\$4.32		
4	4122 SK-4.0 200 mm (Skin Pack)	11081203	4007220005408	20	\$6.08		
4.8	4122 SK-4.8 200 mm (Skin Pack)	11083203	4007220005415	20	\$6.08		
5.5	4122 SK-5.5 200 mm (Skin Pack)	11085203	4007220005422	20	\$6.08		
	HKSF 100/10 - Wooden File Handle (Boxed)	12611010	4007220015407	10	\$3.60		
	HKSF 100/100 - Wooden File Handle (Bulk)	12610010	4007220015391	100	\$3.24		
	FH1 KSF - Ergonomic Chain Saw File Handle	12617110	4007220535707	10	\$5.36		
	Chain Saw Sharpening Gauge KSSL	12600010	4007220536308	10	\$1.88		
	Chain-Sharp CS-X-4.0mm	11098040	4007220835913	1	\$79.02		
	Chain-Sharp CS-X-4.8mm	11098048	4007220835920	1	\$79.02		
	Chain-Sharp CS-X-5.16mm	11098051	4007220835937	1	\$79.02		
	Chain-Sharp CS-X-5.5mm	11098055	4007220835944	1	\$79.02		
200	4130 200 mm C2 - Depth Gauge Files to Suit	11690202	4007220011218	10	\$16.34		
200	4131 200 mm C2 - Depth Gauge Files to Suit	11691202	4007220011225	10	\$13.10		
200	4132 200 mm C2 - Depth Gauge File - Suit CSX	11692202	4007220831335	10	\$22.14		
150	Gauge File 1213RUK 150 C2	11610153	4007220011041	10	\$9.54		
Precision Files							
Needle Files							
160	2406 160 mm C2 - Flat	12505083	4007220237502	12	\$11.06		
160	2401 160 mm C2 - Hand	12501083	4007220383971	12	\$10.22		
160	2407 160 mm C2 - 3 Square	12508083	4007220237762	12	\$11.06		
160	2408 160 mm C2 - Square	12511083	4007220238134	12	\$11.06		
160	2405 160 mm C2 - Knife	12506083	4007220237625	12	\$11.74		
160	2402 160 mm C2- Half Round	12509083	4007220237922	12	\$11.74		
160	2410 160 mm C2 - Round	12512083	4007220238288	12	\$10.40		
160	2411 160 mm C2 - Barrette	12503083	4007220237229	12	\$11.06		
160	2415 160 mm C2 - Flat with Round Edge	12515083	4007220238400	12	\$11.74		
160	2416 160 mm C2 - Hand with Round Edge	12502083	4007220383926	12	\$11.74		
160	2409 160 mm C2 - Crossing Oval	12510083	4007220238042	12	\$11.74		
160	266/16 160 mm C1 - Set (12 Pieces)	12704082	4007220235553	1	\$140.44		
160	NFB 2493 160 mm C2 - Set (12 Pieces)	12799010	4007220235515	1	\$140.44		
Note: For more information on shapes and cuts, please refer to PFERD Tool Manual 21, Section 201, Pages 40 - 42							
Swiss Cut Files - Half Round							
100	835 100 C2	19307104	4007220280102	12	\$51.98		
150	835 150 C2	19307154	4007220280164	12	\$58.36		

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Precision Files						
Riffler Files						
150	901P 150 mm C2	12409012	4007220014950	12	\$24.02	901P 
150	911P 150 mm C2	12409112	4007220014974	12	\$26.46	911P 
150	913P 150 mm C2	12409132	4007220014998	12	\$26.46	913P 
150	916P 150 mm C2	12409162	4007220015032	12	\$26.46	916P 
150	917P 150 mm C2	12409172	4007220015056	12	\$26.46	917P 
150	918P 150 mm C2	12409182	4007220015070	12	\$26.46	918P 
150	942P 150 mm C2	12409422	4007220015117	12	\$26.46	942P 
150	952P 150 mm C2	12409522	4007220015131	12	\$26.46	952P 
150	954P 150 mm C2	12409542	4007220015155	12	\$31.94	954P 
150	963P 150 mm C2	12409632	4007220015179	12	\$31.94	963P 
150	965P 150 mm C2	12409652	4007220015193	12	\$24.02	965P 
150	972P 150 mm C2	12409722	4007220015216	12	\$26.46	972P 
150	974P 150 mm C2	12409742	4007220015230	12	\$26.46	974P 
150	982P 150 mm C2	12409822	4007220015278	12	\$24.02	982P 
150	982P 150 mm C4	12409824	4007220015285	12	\$29.02	982P 
150	985P 150 mm C2	12409852	4007220015292	12	\$24.02	985P 
180	711P 180 mm C2	12407112	4007220014783	12	\$36.54	711P 
180	731P 180 mm C2	12407312	4007220014820	12	\$36.54	731P 
180	732P 180 mm C2	12407322	4007220345733	12	\$36.54	732P 
180	762P 180 mm C2	12407622	4007220014882	12	\$41.54	762P 
180	771P 180 mm C2	12407712	4007220014905	12	\$41.54	771P 
180	781P 180 mm C2	12407812	4007220014929	12	\$30.86	781P 
180	795P 180 mm C2	12407952	4007220014943	12	\$41.54	795P 
Note: For more information on shapes and cuts, please refer to PFERD Tool Manual 21, Section 201, Pages 44 - 48						
Accessories						
File Handles						
	FH 2-10 (Suits Key Files and Narrow Tangs)	12617120	4007220535714	10	\$4.14	FH 2 + 3 
	FH 3-10 (All Files 100 - 150mm)	12617130	4007220535738	10	\$4.14	FH 4 + 5 
	FH 4/1-10 (Hand, Flat, Half Round, 200 - 250mm)	12617141	4007220535776	10	\$5.26	FH 4/1 
	FH 4-10 (All other - 200 - 250mm)	12617140	4007220535752	10	\$5.26	FH 5/1 
	FH 5/1-10 (Hand, Flat, Half Round, 300 - 350mm)	12617151	4007220535813	10	\$6.08	FH 1 KSF 
	FH 5-10 (All other - 300 - 350mm)	12617150	4007220535790	10	\$6.08	
	FH 1 KSF (Ergonomic Chain Saw File Handle)	12617110	4007220535707	10	\$5.36	
	HKSF 100/10 (Wooden Chain Saw File Handle)	12611010	4007220015407	10	\$3.60	
	HKSF 100/100 (Wooden Chain Saw File Handle)	12610010	4007220015391	100	\$3.24	
	Chain Saw Sharpening KSSL (Gauge to Suit)	12600010	4007220536308	10	\$1.88	
	210-1 (Quick Mount Type)	12605003	4007220015353	1	\$8.10	210-1 
	NFH 211-3 K (Needle File Handle)	12299004	4007220267783	10	\$48.20	NFH 211 
	NFH 212 (Needle File Handle)	12299010	4007220669532	10	\$26.46	NFH 212 
	RFH 150 (Riffler File Handle)	12602172	4007220015322	10	\$10.48	RFH 
	RFH 180 (Riffler File Handle)	12604224	4007220015346	10	\$12.86	
File Cleaning Brush						
	HBF 10 ST 0.15	12601000	4007220015315	5	\$6.88	



Application Examples and Recommendations

PFERD tungsten carbide burrs are designed for machining materials of virtually any strength. The perfect combination of tungsten carbide, shape and cut geometry and, if required, coatings, make this possible.

Advantages

The high concentricity

- allows the operator to work more safely
- reduces tool drive wear
- provides smooth operating action
- prevents chatter marks
- increases tool life and stock removal performances

Application examples

- Deburring
- Contouring
- Milling in preparation for build-up welding
- Weld dressing
- Milling of acute-angled surfaces
- Inner contour work, i.e. peripheral and face milling

Recommendations for use

Optimum power output and RPM of the power source (air-powered or electric machine, flexible shaft system) are necessary conditions for an cost-effective use of tungsten carbide burrs.

We therefore recommend that you:

- Use highest possible speeds. Please observe our recommendations for speed/cutting speed.
- For stationary use or when countersinking with 360° use of the burr, work in these instances at 3,000 RPM or less.
- Only use rigid clamping systems/drives as impacts and chattering on the tools lead to premature wear.
- Do not choose a too small burr clamping depth. In general the minimum clamping depth is 2/3 of the shaft length.
- For the cost-effective use of burrs with a diameter > 6mm a tool drive output of 300-500 watts is required used at the higher cutting speeds. When using burrs with coarse cuts (e.g. ALU cut), even higher tool drive outputs of 500-1,500 watts are of advantage.
- The speed can be substantially increased with low stock removal (deburring, chamfering, light surface work).

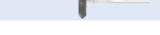


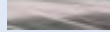
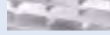
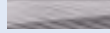
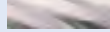
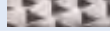
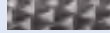
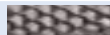
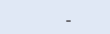
- We recommend substantially lowering the speed to avoid damage to materials which do not conduct heat well, such as stainless steel (INOX), titanium alloys etc. Avoid making the shank and tool turn blue. If subjected to excessive temperatures, the soldering connection between the burr head and the shank becomes less rigid. The head may tear off.
- The burr contact surface to the workpiece should not total more than a third of the circumference. An excessively large wrap angle > 1/3 prevents smooth milling behaviour. This results in cut breakage. If an enlacement angle > 1/3 cannot be avoided, we recommend cuts 3R and 3RS.
- When machining very cloying materials, the use of a suitable lubricant such as cutting oil, grease, kerosene, chalk or similar is recommended, to prevent the cut from clogging up.

Shapes and cuts for TC burrs and HSS rotary cutters

The DIN Standards Institute uses a specific code system to denote the shape (DIN 8032) and cut (DIN 8033) of these burrs.

The tables compare the shapes and cuts between the PFERD and DIN codes.

Shape	PFERD shapes	DIN shapes
	ZYA	ZYA
	ZYAS	ZYA...S
	B	-
	KUD	KUD
	WRC	WRC
	SPG	SPG
	SKM	SKM
	RBF	RBF
	KEL	KEL
	TRE	TRE
	WKN	WKN
	WKNS	WKN...S
	KSJ	KSJ
	KSK	KSK
	R	-
	V	-
	N	-

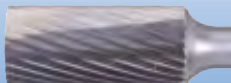
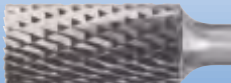
PFERD cuts		DIN cuts
	1	C
	2 (HSS with chip breaker)	-
	3 (HSS with chip breaker)	-
	3	MY
	3 PLUS	MX
	4	MX
	5	F
	ALU	-
	ALU PLUS	-
	FVK	-
	FVKS	-
	3R	-
	3RS	-
	MC	-
-	special cut	-
	INOX	-

Burrs and Hole Saws

General Information



Cut Types

Cut 1 (conforms to DIN C) 	Suitable for coarse machining of light metals, plastics, non-ferrous metals, steel and cast iron.	Cut ALU PLUS 	Suitable for coarse machining of hard aluminium alloys with an Si-content of > 12% and non-ferrous metals. High machining performance thanks to specially developed tooth geometry.
Cut 3 (conforms to DIN MY) 	Suitable for high coarse stock removal and good surface finish on cast iron, steel < 60 HRC, stainless steel (INOX), nickel-based alloys and titanium alloys.	Cut FVK 	Suitable for trimming and contour milling of fibre-reinforced plastics GRP and CRP, hard rubber and thermoplastics. Thanks to the high level of concentric accuracy, suitable for use in stationary machines as well as manual applications. These burrs with an end cut allow both drilling and cutting tasks to be performed.
Cut 3 PLUS (conforms to DIN MX) 	Similar to cut 3, but with cross cut. Suitable for high coarse stock removal on cast iron, steel < 60 HRC, stainless steel (INOX), nickel-based alloys and titanium alloys.	Cut FVKS 	Similar to cut FVK. Due to the special tooth design, suitable for smooth milling on machines and robots with high feed rates. These burrs with an end cut allow both drilling and cutting tasks to be performed.
Cut 4 (conforms to DIN MX) 	Suitable for machining when a high stock removal is required. Creates short chips and good surface quality on stainless steels (INOX), steel < 60 HRC, high heat-resistant materials such as e.g. nickel-based alloys, cobalt-based alloys.	Cut 3R 	With extreme impact resistance, these burrs also provide a high wrap angle > 1/3. Suitable for machining with high stock removal on cast iron, steel < 55 HRC, stainless steel (INOX), nickel-based alloys and titanium alloys.
Cut 5 (conforms to DIN F) 	Suitable for fine deburring of stainless steel (INOX), high heat-resistant materials such as e.g. nickel based, cobalt based alloys.	Cut 3RS 	Similar to cut 3R, but with smooth milling behaviour, creates shorter chips. Due to the extreme impact resistance, can also be used with a high wrap angle > 1/3 and under impacting loads. Suitable for coarse machining with high stock removal on cast iron, steel < 55 HRC, stainless steel (INOX), nickel-based alloys and titanium alloys.
Cut ALU 	Suitable for coarse machining with high stock removal of aluminium and aluminium alloys, light metals, non-ferrous metals and plastics.	Cut MC 	Suitable for fine smooth milling of boreholes up to dia. 12 mm and for very fine machining with high surface quality of material hardnesses < 60 HRC.
		Cut INOX 	With cut INOX, PFERD has now developed innovative burrs for working stainless steel (INOX). Cut INOX stands out thanks to its extreme high stock removal performance on all austenitic, rust and acid-resistant steels.

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Tungsten Carbide Burrs - 3mm Shank						
Miniature Burrs - 3mm Shank - ZYAS - Cylindrical (End Cut)						
2 x 10	ZYAS 0210/3 C3 PLUS	21200183	4007220049471	1	\$22.08	 
2 x 10	ZYAS 0210/3 C5	21200153	4007220049464	1	\$22.88	
3 x 13	ZYAS 0313/3 C3 PLUS	21200283	4007220049501	1	\$18.88	
3 x 13	ZYAS 0313/3 C4	26002029	4007220779392	1	\$25.48	
3 x 13	ZYAS 0313/3 C5	21200253	4007220049488	1	\$19.08	
6 x 7	ZYAS 0607/3 C3 PLUS	21200383	4007220049532	1	\$30.52	
6 x 7	ZYAS 0607/3 C5	21200353	4007220049518	1	\$30.76	
6 x 13	ZYAS 0613/3 C3 PLUS	21200483	4007220049563	1	\$33.40	
6 x 13	ZYAS 0613/3 C5	21200453	4007220049549	1	\$32.32	
Miniature Burrs - 3mm Shank - B Flame Shape						
3 x 7	B 0307/3 C5	21202553	4007220049570	1	\$22.80	
6 x 13	B 0613/3 C5	21203653	4007220049594	1	\$41.28	
Miniature Burrs - 3mm Shank - WRC Cylindrical Radius End						
2 x 10	WRC 0210/3 C3 PLUS	21205083	4007220049631	1	\$24.52	
2 x 10	WRC 0210/3 C5	21205053	4007220049624	1	\$24.28	
3 x 13	WRC 0313/3 C3 PLUS	21205183	4007220049662	1	\$21.36	
3 x 13	WRC 0313/3 C5	21205153	4007220049648	1	\$19.08	
6 x 13	WRC 0613/3 C3 PLUS	21205283	4007220049693	1	\$39.40	
6 x 13	WRC 0613/3 C5	21205253	4007220049679	1	\$49.08	
Miniature Burrs - 3mm Shank - WKNS Inverted Cone						
3 x 7	WKNS 0307/3 C3 PLUS	21207583	4007220049716	1	\$26.08	
3 x 7	WKNS 0307/3 C5	21207553	4007220049709	1	\$25.80	
6 x 7	WKNS 0607/3 C3 PLUS	21207683	4007220049730	1	\$35.64	
6 x 7	WKNS 0607/3 C5	21207653	4007220049723	1	\$34.56	
Miniature Burrs - 3mm Shank - KUD Ball Shape						
3 x 2	KUD 0302/3 C3 PLUS	21211083	4007220049778	1	\$20.44	
3 x 2	KUD 0302/3 C5	21211053	4007220049761	1	\$19.16	
4 x 3	KUD 0403/3 C3 PLUS	21212583	4007220049792	1	\$32.04	
4 x 3	KUD 0403/3 C5	21212553	4007220049785	1	\$32.04	
6 x 5	KUD 0605/3 C3 PLUS	21213083	4007220049815	1	\$27.04	
6 x 5	KUD 0605/3 C5	21213053	4007220049808	1	\$35.48	

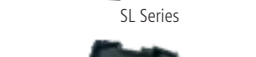
Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Tungsten Carbide Burrs - 3mm Shank (continued)						
Miniature Burrs - 3mm Shank - SKM Conical Pointed						
3 x 7	SKM 0307/3 C3 PLUS	21214083	4007220049839	1	\$25.48	
3 x 7	SKM 0307/3 C5	21214053	4007220049822	1	\$24.04	
3 x 11	SKM 0311/3 C3 PLUS	21214183	4007220049853	1	\$27.60	
3 x 11	SKM 0311/3 C5	21214153	4007220049846	1	\$26.08	
6 x 13	SKM 0613/3 C3 PLUS	21215083	4007220049877	1	\$37.04	
6 x 13	SKM 0613/3 C5	21215053	4007220049860	1	\$35.56	
Miniature Burrs - 3mm Shank - RBF Tree Radius End						
3 x 7	RBF 0307/3 C3 PLUS	21217583	4007220049891	1	\$24.44	
3 x 7	RBF 0307/3 C5	21217553	4007220049884	1	\$22.88	
6 x 13	RBF 0613/3 C3 PLUS	21230083	4007220050019	1	\$40.80	
6 x 13	RBF 0613/3 C5	21230053	4007220049990	1	\$39.56	
Miniature Burrs - 3mm Shank - SPG Pointed Tree						
3 x 7	SPG 0307/3 C3 PLUS	21222583	4007220049921	1	\$24.04	
3 x 7	SPG 0307/3 C5	21222553	4007220049907	1	\$22.80	
3 x 13	SPG 0313/3 C3 PLUS	21222683	4007220049952	1	\$24.60	
3 x 13	SPG 0313/3 C5	21222653	4007220049938	1	\$23.32	
6 x 13	SPG 0613/3 C3 PLUS	21222783	4007220049983	1	\$36.84	
6 x 13	SPG 0613/3 C5	21222753	4007220049969	1	\$34.88	
Miniature Burrs - 3mm Shank - TRE Oval Shape						
3 x 7	TRE 0307/3 C3 PLUS	21210083	4007220049754	1	\$25.88	
3 x 7	TRE 0307/3 C5	21210053	4007220049747	1	\$22.88	
6 x 10	TRE 0610/3 C3 PLUS	21235083	4007220050040	1	\$41.56	
6 x 10	TRE 0610/3 C5	21235053	4007220050026	1	\$47.20	
Miniature Burr Set - 3mm Shank						
Assorted	1501 HM	21901501	4007220055892	1	\$416.44	
Set Contents:	ZYA 0210/3 C5 ZYA 0313/3 C5 ZYA 0607/3 C5					
	ZYA 0613/3 C5 B 0307/3 C5 KUD 0403/3 C5					
	WRC 0210/3 C5 WRC 0313/3 C5 SPG 0307/3 C5					
	SKM 0613/3 C5 RBF 0307/3 C5 RBF 0613/3 C5					
	TRE 0307/3 C5 TRE 0610/3 C5 WKN 0307/3 C5					
Tungsten Carbide Burrs - 6mm Shank						
Standard Shapes - 6mm Shank						
ZYA - Cylindrical						
4 x 13	ZYA 0413/6 C3 PLUS	21101526	4007220045435	1	\$31.12	
6 x 16	ZYA 0616/6 C ALU PLUS	21101696	4007220221044	1	\$26.24	
6 x 16	ZYA 0616/6 C3 PLUS	21101626	4007220045480	1	\$29.04	
6 x 16	ZYA 0616/6 C4	21101646	4007220045503	1	\$31.64	
6 x 16	ZYA 0616/6 C5	21101656	4007220045510	1	\$29.04	
8 x 20	ZYA 0820/6 C3 PLUS	21101726	4007220045541	1	\$39.28	
8 x 20	ZYA 0820/6 C4	21101746	4007220045565	1	\$41.28	
10 x 13	ZYA 1013/6 C3 PLUS	21101826	4007220045596	1	\$47.20	
10 x 20	ZYA 1020/6 C1	21102116	4007220045862	1	\$47.52	
10 x 20	ZYA 1020/6 C3	21102106	4007220045855	1	\$47.00	
10 x 20	ZYA 1020/6 C3 PLUS	21102126	4007220045879	1	\$47.00	
10 x 20	ZYA 1020/6 C4	21102146	4007220045916	1	\$65.12	
10 x 20	ZYA 1020/6 C5	21102156	4007220045930	1	\$49.16	
10 x 25	ZYA 1025/6 C3 PLUS	21102226	4007220045978	1	\$54.24	
12 x 25	ZYA 1225/6 C ALU PLUS	21101996	4007220533314	1	\$83.88	
12 x 25	ZYA 1225/6 C1	21101916	4007220045671	1	\$59.24	
12 x 25	ZYA 1225/6 C3 PLUS	21101926	4007220045695	1	\$57.04	
12 x 25	ZYA 1225/6 C4	21101946	4007220045732	1	\$65.84	
12 x 25	ZYA 1225/6 C5	21101956	4007220045756	1	\$61.84	
16 x 25	ZYA 1625/6 C3 PLUS	21102026	4007220045800	1	\$71.48	
16 x 25	ZYA 1625/6 C4	21102046	4007220045848	1	\$72.44	

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Tungsten Carbide Burrs - 6mm Shank (continued)						
ZYAS - Cylindrical (End Cut)						
4 x 13	ZYAS 0413/6 C3 PLUS	21100126	4007220044926	1	\$32.12	 
6 x 16	ZYAS 0616/6 C3 PLUS	21100226	4007220044971	1	\$37.96	
6 x 16	ZYAS 0616/6 C4	21100246	4007220044995	1	\$40.72	
6 x 16	ZYAS 0616/6 C5	21100256	4007220045008	1	\$38.40	
8 x 20	ZYAS 0820/6 C3 PLUS	21100326	4007220045022	1	\$43.52	
10 x 13	ZYAS 1013/6 C3 PLUS	21100426	4007220045084	1	\$52.24	
10 x 20	ZYAS 1020/6 C ALU	21100786	4007220533321	1	\$51.24	
10 x 20	ZYAS 1020/6 C3 PLUS	21100726	4007220045305	1	\$52.32	
10 x 25	ZYAS 1025/6 C3 PLUS	21100826	4007220045374	1	\$67.84	
10 x 25	ZYAS 1025/6 C4	21100846	4007220045404	1	\$73.88	
12 x 25	ZYAS 1225/6 C ALU	21100586	4007220533345	1	\$73.88	
12 x 25	ZYAS 1225/6 C 3	21100506	4007220045145	1	\$71.48	
12 x 25	ZYAS 1225/6 C ALU PLUS	26003054	4007220422281	1	\$71.48	
12 x 25	ZYAS 1225/6 C3 PLUS	21100526	4007220045176	1	\$74.00	
12 x 25	ZYAS 1225/6 C5	21100556	4007220045237	1	\$70.92	
16 x 25	ZYAS 1625/6 C3 PLUS	21100626	4007220045251	1	\$82.80	
B - Flame Shape						
8 x 20	B 0820/6 C3 PLUS	21103126	4007220046067	1	\$43.00	
12 x 30	B 1230/6 C3 PLUS	21103326	4007220046111	1	\$80.64	
16 x 35	B 1635/6 C3 PLUS	21103426	4007220046142	1	\$103.92	
KUD - Ball Shape						
4 x 3	KUD 0403/6 C3 PLUS	21112026	4007220046791	1	\$27.44	
4 x 3	KUD 0403/6 C5	21112056	4007220046807	1	\$26.40	
6 x 5	KUD 0605/6 C3 PLUS	21112526	4007220046821	1	\$27.20	
6 x 5	KUD 0605/6 C4	21112546	4007220046845	1	\$30.44	
6 x 5	KUD 0605/6 C5	21112556	4007220046852	1	\$35.32	
8 x 7	KUD 0807/6 C ALU PLUS	21112696	4007220221082	1	\$31.48	
8 x 7	KUD 0807/6 C3 PLUS	21112626	4007220046883	1	\$29.76	
8 x 7	KUD 0807/6 C4	21112646	4007220046906	1	\$31.04	
10 x 9	KUD 1009/6 C1	21112716	4007220046944	1	\$29.40	
10 x 9	KUD 1009/6 C3 PLUS	21112726	4007220046951	1	\$34.96	
12 x 10	KUD 1210/6 C ALU	21112886	4007220533147	1	\$62.48	
12 x 10	KUD 1210/6 C ALU PLUS	21112896	4007220533154	1	\$63.88	
12 x 10	KUD 1210/6 C3 PLUS	21112826	4007220047033	1	\$43.00	
12 x 10	KUD 1210/6 C4	21112846	4007220047071	1	\$46.00	
16 x 14	KUD 1614/6 C3 PLUS	21112926	4007220047132	1	\$61.04	
20 x 18	KUD 2018/6 C3 PLUS	21113026	4007220047224	1	\$85.16	
WRC - Cylindrical Radius End						
4 x 13	WRC 0413/6 C3 PLUS	21104926	4007220046173	1	\$31.88	
4 x 13	WRC 0413/6 C4	21104946	4007220046197	1	\$32.76	
6 x 16	WRC 0616/6 C ALU PLUS	21105096	4007220221068	1	\$33.40	
6 x 16	WRC 0616/6 C1	21105016	4007220046227	1	\$30.32	
6 x 16	WRC 0616/6 C3 PLUS	21105026	4007220046234	1	\$36.68	
6 x 16	WRC 0616/6 C4	21105046	4007220046258	1	\$38.40	
6 x 16	WRC 0616/6 C5	21105056	4007220046265	1	\$46.28	
8 x 20	WRC 0820/6 C1	21105116	4007220046296	1	\$41.04	
8 x 20	WRC 0820/6 C3 PLUS	21105126	4007220046302	1	\$41.20	
8 x 20	WRC 0820/6 C4	21105146	4007220046326	1	\$45.56	
8 x 20	WRC 0820/6 C5	21105156	4007220046333	1	\$53.16	
10 x 20	WRC 1020/6 C1	21105216	4007220046371	1	\$47.44	
10 x 20	WRC 1020/6 C3 PLUS	21105226	4007220046388	1	\$48.72	
10 x 20	WRC 1020/6 C4	21105246	4007220046425	1	\$61.32	
10 x 25	WRC 1025/6 C3 PLUS	21105526	4007220046715	1	\$54.12	
10 x 25	WRC 1025/6 C4	21105546	4007220046746	1	\$55.76	
12 x 25	WRC 1225/6 C ALU	21105386	4007220533260	1	\$76.96	
12 x 25	WRC 1225/6 C ALU PLUS	21105396	4007220533284	1	\$75.84	

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Tungsten Carbide Burrs - 6mm Shank (continued)						
WRC - Cylindrical Radius End (continued)						
12 x 25	WRC 1225/6 C1	21105316	4007220046487	1	\$76.28	
12 x 25	WRC 1225/6 C3 PLUS	21105326	4007220046500	1	\$57.04	
12 x 25	WRC 1225/6 C4	21105346	4007220046548	1	\$68.12	
12 x 25	WRC 1225/6 C5	21105356	4007220046562	1	\$79.80	
16 x 25	WRC 1625/6 C1	21105416	4007220046623	1	\$88.08	
16 x 25	WRC 1625/6 C3 PLUS	21105426	4007220046630	1	\$93.56	
16 x 25	WRC 1625/6 C4	21105446	4007220046678	1	\$101.40	
SPG - Pointed Tree						
6 x 18	SPG 0618/6 C1	21122516	4007220047934	1	\$35.64	
6 x 18	SPG 0618/6 C3 PLUS	21122526	4007220047941	1	\$35.04	
6 x 18	SPG 0618/6 C4	21122546	4007220047965	1	\$36.68	
10 x 20	SPG 1020/6 C1	21122616	4007220048016	1	\$47.88	
10 x 20	SPG 1020/6 C3 PLUS	21122626	4007220048023	1	\$50.28	
10 x 20	SPG 1020/6 C4	21122646	4007220048061	1	\$53.00	
10 x 20	SPG 1020/6 C5	21122656	4007220048085	1	\$47.28	
12 x 25	SPG 1225/6 C1	21122716	4007220048139	1	\$57.96	
12 x 25	SPG 1225/6 C3 PLUS	21122726	4007220048146	1	\$54.24	
12 x 25	SPG 1225/6 C5	21122756	4007220048207	1	\$37.52	
12 x 30	SPG 1230/6 C3 PLUS	21123426	4007220048382	1	\$70.92	
16 x 30	SPG 1630/6 C3 PLUS	21122826	4007220048276	1	\$89.32	
SKM - Conical Pointed						
6 x 18	SKM 0618/6 C1	21115016	4007220047286	1	\$28.40	
6 x 18	SKM 0618/6 C3 PLUS	21115026	4007220047293	1	\$41.12	
10 x 20	SKM 1020/6 C3 PLUS	21115126	4007220047354	1	\$64.32	
12 x 25	SKM 1225/6 C1	21115216	4007220047415	1	\$59.24	
12 x 25	SKM 1225/6 C3 PLUS	21115226	4007220047422	1	\$72.92	
12 x 25	SKM 1225/6 C4	21115246	4007220047460	1	\$90.12	
12 x 25	SKM 1225/6 C5	21115256	4007220047477	1	\$64.56	
KSJ, KSK - Conical (Included Angle)						
6 x 5	KSJ 0605/6 C3	21115536	4007220047552	1	\$30.52	 KSJ - 60°INC. ANGLE KSK - 90°INC. ANGLE
6 x 3	KSK 0603/6 C3	21115636	4007220047569	1	\$28.40	
10 x 8	KSJ 1008/6 C3	21115736	4007220047576	1	\$39.76	
10 x 5	KSK 1005/6 C3	21115836	4007220047583	1	\$38.40	
16 x 13	KSJ 1613/6 C3	21115336	4007220047491	1	\$56.52	
16 x 8	KSK 1608/6 C3	21115436	4007220047521	1	\$50.36	
RBF - Tree Radius End						
6 x 18	RBF 0618/6 C ALU	21117386	4007220328071	1	\$65.04	
6 x 18	RBF 0618/6 C3 PLUS	21117326	4007220047606	1	\$36.28	
6 x 18	RBF 0618/6 C4	21117346	4007220047620	1	\$38.28	
6 x 18	RBF 0618/6 C5	21117356	4007220047637	1	\$37.20	
8 x 20	RBF 0820/6 C3 PLUS	21117626	4007220047651	1	\$50.80	
8 x 20	RBF 0820/6 C4	21117646	4007220047675	1	\$44.80	
10 x 20	RBF 1020/6 C3 PLUS	21117726	4007220047705	1	\$52.32	
10 x 20	RBF 1020/6 C4	21117746	4007220047729	1	\$56.96	
10 x 20	RBF 1020/6 C5	21117756	4007220047736	1	\$54.24	
12 x 25	RBF 1225/6 C ALU	21117886	4007220533208	1	\$78.44	
12 x 25	RBF 1225/6 C ALU PLUS	26002823	4007220335321	1	\$75.76	
12 x 25	RBF 1225/6 C1	21117816	4007220047774	1	\$54.12	
12 x 25	RBF 1225/6 C3 PLUS	21117826	4007220047781	1	\$57.04	
12 x 25	RBF 1225/6 C4	21117846	4007220047828	1	\$66.36	
12 x 25	RBF 1225/6 C5	21117856	4007220047835	1	\$60.12	
16 x 30	RBF 1630/6 C3 PLUS	21117926	4007220047873	1	\$95.68	
16 x 30	RBF 1630/6 C4	21117946	4007220047910	1	\$88.16	

Size mm/in	Description	Article No.	Barcode		List Price ea. \$	Image
Tungsten Carbide Burrs - 6mm Shank (continued)						
KEL - Conical Radius End						
10 x 20	KEL 1020/6 C ALU PLUS	21125096	4007220221105	1	\$47.28	
10 x 20	KEL 1020/6 C3 PLUS	21125026	4007220048481	1	\$51.80	
12 x 25	KEL 1225/6 C3 PLUS	21125126	4007220048559	1	\$65.40	
12 x 25	KEL 1225/6 C4	21125146	4007220048597	1	\$70.64	
12 x 30	KEL 1230/6 C ALU PLUS	21125296	4007220533116	1	\$88.96	
12 x 30	KEL 1230/6 C1	21125216	4007220048627	1	\$64.56	
12 x 30	KEL 1230/6 C3 PLUS	21125226	4007220048634	1	\$82.88	
12 x 30	KEL 1230/6 C4	21125246	4007220048672	1	\$68.56	
12 x 30	KEL 1230/6 C5	21125256	4007220048689	1	\$69.36	
16 x 30	KEL 1630/6 C3 PLUS	21125326	4007220048719	1	\$83.88	
16 x 30	KEL 1630/6 C4	21125346	4007220048733	1	\$91.68	
TRE - Oval Shape						
6 x 10	TRE 0610/6 C3 PLUS	21134826	4007220048771	1	\$32.24	
6 x 10	TRE 0610/6 C5	21134856	4007220048801	1	\$45.84	
8 x 13	TRE 0813/6 C3 PLUS	21135026	4007220048894	1	\$38.12	
8 x 13	TRE 0813/6 C4	21135046	4007220048917	1	\$40.00	
10 x 16	TRE 1016/6 C3 PLUS	21134926	4007220048832	1	\$51.88	
12 x 20	TRE 1220/6 C1	21135116	4007220048955	1	\$57.96	
12 x 20	TRE 1220/6 C3 PLUS	21135126	4007220048962	1	\$57.96	
12 x 20	TRE 1220/6 C4	21135146	4007220049006	1	\$71.92	
12 x 20	TRE 1220/6 C5	21135156	4007220049020	1	\$82.16	
16 x 25	TRE 1625/6 C3 PLUS	21135226	4007220049099	1	\$95.92	
16 x 25	TRE 1625/6 C4	21135246	4007220049136	1	\$100.92	
16 x 25	TRE 1625/6 C ALU PLUS	26003615	4007220518960	1	\$86.24	
WKN - Inverted Cone						
10 x 13	WKN 1013/6 C3	21155036	4007220049211	1	\$87.96	
12 x 13	WKN 1213/6 C3	21155136	4007220049235	1	\$116.80	
V - Concave Radius						
10 x 15	V 1015/6 C3	21152536	4007220049174	1	\$82.68	
13 x 15	V 1315/6 C3	21152736	4007220049198	1	\$106.12	
Carbide Burr Sets - Metric 6mm						
Assorted	1503 -10 Piece Set C3 PLUS	26005691	4007220818022	1	\$527.56	
Set Contents:	ZYA 1025, ZYA 1225, WRC 0616, WRC 1225, RBF 0618 RBF 1020, RBF 1225, KEL 1020, TRE 1220					
Assorted	1504 -5 Piece Set C3 PLUS	26005692	4007220818039	1	\$275.52	
Set Contents:	ZYA 1025, WRC 1025, WRC 1225, RBF 1020, TRE 1220					
Tungsten Carbide Burrs - 1/4" Shank						
Standard Shapes - 1/4" Shank						
TC/A - Cylindrical						
1/4 x 5/8	TC-A 1458-4 ADC (ZYA 6.35x15.9x6.35 C3 PLUS)	21724032	097758240321	1	\$29.92	
5/16 x 3/4	TC-A 51634-4 ADC (ZYA 7.9x19x6.35 C3 PLUS)	21724052	097758240529	1	\$39.68	
3/8 x 3/4	TC-A 3834-4 ADC (ZYA 9.5x19x6.35 C3 PLUS)	21724062	097758240628	1	\$47.72	
1/2 x 1	TC-A 121-4 ADC (ZYA 12.7x25.4x6.35 C3 PLUS)	21724102	097758241021	1	\$60.40	
TC/C - Cylindrical Radius End						
1/4 x 5/8	TC-C 1458-4 ADC (WRC 6.35x15.9x6.35 C3 PLUS)	21724392	097758243926	1	\$37.36	
1/4 x 5/8	TC-C 1458-4 ALU (WRC 6.35x15.9x6.35 C ALU)	21724395	097758243957	1	\$37.36	
5/16 x 3/4	TC-C 51634-4 ADC (WRC 7.9x19x6.35 C3 PLUS)	21724412	097758244121	1	\$41.36	
3/8 x 3/4	TC-C 3834-4 ADC (WRC 9.5x19x6.35 C3 PLUS)	21724422	097758244220	1	\$46.52	

Size inches	Description	Article No.	Barcode		List Price ea. \$	Image	
Tungsten Carbide Burrs - 1/4" Shank (continued)							
TC/C - Cylindrical Radius End (continued)							
3/8 x 3/4	TC-C 3834-4 ALU (WRC 9.5x19x6.35 C ALU)	21724425	097758244251	1	\$46.52		
1/2 x 1	TC-C 121-4 ADC (WRC 12.7x25.4x6.35 C3 PLUS)	21724462	097758244626	1	\$64.48		
1/2 x 1	TC-C 121-4 ALU (WRC 12.7x25.4x6.35 C ALU)	21724465	097758244657	1	\$64.48		
5/8 x 1	TC-C 581-4 ADC (WRC 15.9x25.4x6.35 C3 PLUS)	21724472	097758244725	1	\$86.44		
TC/D - Ball Shape							
1/4 x 3/16	TC-D 14316-4 ADC (KUD 6.35x4.8x6.35 C3 PLUS)	21724542	097758245425	1	\$27.60		
5/16 x 1/4	TC-D 51614-4 ADC (KUD 7.9x6.35x6.35 C3 PLUS)	21724552	097758245524	1	\$29.92		
3/8 x 5/16	TC-D 38516-4 ADC (KUD 9.5x7.9x6.35 C3 PLUS)	21724562	097758245623	1	\$35.20		
1/2 x 7/16	TC-D 12716-4 ADC (KUD 12.7x11.1x6.35 C3 PLUS)	21724582	097758245821	1	\$41.92		
TC/E - Oval Shape							
1/4 x 3/8	TC-E 1438-4 ADC (TRE 6.35x9.5x6.35 C3 PLUS)	21724632	097758246323	1	\$32.56		
3/8 x 5/8	TC-E 3858-4 ADC (TRE 9.5x15.9x6.35 C3 PLUS)	21724642	097758246422	1	\$52.32		
1/2 x 7/8	TC-E 1278-4 ADC (TRE 12.7x22.2x6.35 C3 PLUS)	21724652	097758246521	1	\$61.24		
1/2 x 7/8	TC-E 1278-4 ALU (TRE 12.7x22.2x6.35 C ALU)	21724655	097758246552	1	\$61.24		
TC/F - Tree Radius							
1/4 x 5/8	TC-F 1458-4 ADC (RBF 6.35x15.9x6.35 C3 PLUS)	21724692	097758246927	1	\$36.60		
1/4 x 5/8	TC-F 1458-4 ALU (RBF 6.35x15.9x6.35 C ALU)	21724695	097758246958	1	\$36.60		
3/8 x 3/4	TC-F 3834-4 ADC (RBF 9.5x19x6.35 C3 PLUS)	21724702	097758247023	1	\$53.52		
3/8 x 3/4	TC-F 3834-4 ALU (RBF 9.5x19x6.35 C ALU)	21724705	097758247054	1	\$52.52		
1/2 x 1	TC-F 121-4 ADC (RBF 12.7x25.4x6.35 C3 PLUS)	21724722	097758247221	1	\$58.84		
1/2 x 1	TC-F 121-4 ALU (RBF 12.7x25.4x6.35 C ALU)	21724725	097758247252	1	\$58.84		
TC/G - Pointed Tree							
1/4 x 5/8	TC-G 1458-4 ADC (SPG 6.35x15.9x6.35 C3 PLUS)	21724782	097758247825	1	\$35.40		
3/8 x 3/4	TC-G 3834-4 ADC (SPG 9.5x19x6.35 C3 PLUS)	21724802	097758248020	1	\$50.52		
1/2 x 1	TC-G 121-4 ADC (SPG 12.7x25.4x6.35 C3 PLUS)	21724812	097758248129	1	\$57.52		
TC/H - Flame Shape							
5/16 x 3/4	TC-H 51634-4 ADC (B 7.9x19x6.35 C3 PLUS)	21724872	097758248723	1	\$43.36		
1/2 x 1 1/4	TC-H 12114-4 ADC (B 12.7x31.7x6.35 C3 PLUS)	21724882	097758248822	1	\$76.64		
TC/L - Cone Radius End							
5/16 x 7/8	TC-L 51678-4 ADC (KEL 7.9x22.2x6.35 C3 PLUS)	21725142	097758251426	1	\$48.08		
3/8 x 1 1/16	TC-L 38116-4 ADC (KEL 9.5x28.6x6.35 C3 PLUS)	21725152	097758251525	1	\$52.24		
1/2 x 1 1/8	TC-L 12118-4 ADC (KEL 12.7x28.6x6.35 C3 PLUS)	21725162	097758251624	1	\$67.04		
1/2 x 1 1/9	TC-L 12118-4 ALU (KEL 12.7x28.6x6.35 C ALU)	21725165	097758251655	1	\$67.04		
TC/M - Pointed Cone							
1/4 x 3/4	TC-M 1434-4 ADC (SKM 6.35x19x6.35 C3 PLUS)	21725212	097758252126	1	\$41.48		
3/8 x 3/4	TC-M 3834-4 ADC (SKM 9.5x19x6.35 C3 PLUS)	21725232	097758252324	1	\$67.48		
1/2 x 1	TC-M 121-4 ADC (SKM 12.7x25.4x6.35 C3 PLUS)	21725242	097758252423	1	\$75.84		
Tungsten Carbide Burrs - Extended 1/4" Shank							
Extended Shank - 1/4" x 6"							
3/8 x 3/4	TC-A 3834-4 ADC (ZYA 9.5x19x6.35-150 C3 PLUS)	21725812	097758258128	1	\$88.00		
1/2 x 1	TC-A 121-4 ADC (ZYA 12.7x1x6.35-150 C3 PLUS)	21725822	097758258227	1	\$90.48		
3/8 x 3/4	TC-C 3834-4 ADC (WRC 9.5x19x6.35-150 C3 PLUS)	21725872	097758258722	1	\$89.76		
1/2 x 1	TC-C 121-4 ADC (WRC 12.7x25.4x6.35-150 C3 PLUS)	21725882	097758258821	1	\$100.92		
3/8 x 5/16	TC-D 38516-4 ADC (KUD 9.5x7.9x6.35-150 C3 PLUS)	21725932	097758259323	1	\$53.16		
1/2 x 7/16	TC-D 12716-4 ADC (KUD 12.7x11.1x6.35-150 C3 PLUS)	21725942	097758259422	1	\$71.48		
1/4 x 3/8	TC-E 1438-4 ADC (TRE 6.35x9.5x6.35-150 C3 PLUS)	21725982	097758259828	1	\$56.88		
3/8 x 3/4	TC-F 3834-4 ADC (RBF 9.5x19x6.35-150 C3 PLUS)	21726052	097758260527	1	\$63.36		
1/2 x 1	TC-F 121-4 ADC (RBF 12.7x25.4x6.35-150 C3 PLUS)	21726062	097758260626	1	\$92.52		
3/8 x 1 1/16	TC-L 38116-4 ADC (KEL 9.5x28.6x6.35-150 C3 PLUS)	21726222	097758262224	1	\$85.96		
TC A Series							
TC C Series							
TC D Series							
TC E Series							
TC F Series							
TC L Series							

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Tungsten Carbide Burrs - Extended 1/4" Shank (continued)						
Carbide Burr Sets - Imperial 1/4"						
Assorted	5 Piece Set - Suits Aluminium	26005695	4007220818060	1	\$248.00	
Set Contents:	TC-C 1458-4 ALU, TC-C 121-4 ALU, TC-E 1278-4 ALU, TC-F 121-4 ALU, TC-L 12118-4 ALU					
Assorted	10 Piece Set - 1510	26005694	4007220818053	1	\$330.84	
Set Contents:	TC-A 1458-4 ADC, TC-A 3834-4 ADC, TC-C 1458-4 ADC, TC-C 3834-4 ADC, TC-C 121-4 ADC, TC-D 3834-4 ADC, TC-E 3858-4 ADC, TC-F 1458-4 ADC, TC-F 121-4 ADC, TC-G 121-4 ADC					
Assorted	5 Piece Set - 1505	26005693	4007220818046	1	\$163.48	
Set Contents:	TC-A 1458-4 ADC, TC-C 1458-4 ADC, TC-C 121-4 ADC, TC-F 121-4 ADC, TC-G 3834-4 ADC					
Tungsten Carbide Burrs - TUFF Burrs						
Carbide Burrs - 1/4" - 'TUFF Series' - 3R						
	SA-3 1/4 DOUBLE-3R (ZYA 1020/6.35 C3R)	21722152	097758221528	1	\$56.80	 ZYA & SA Series
	SA-5 1/4 DOUBLE-3R (ZYA 1225/6.35 Z3R)	21722156	097758221566	1	\$67.60	
	SC-3 1/4 DOUBLE-3R (WRC 1020/6.35 Z3R)	21722212	097758222129	1	\$50.72	 B Series
	SC-5 1/4 DOUBLE-3R (WRC 1225/6.35 Z3R)	21722216	097758222167	1	\$70.96	
	SD-5 1/4 DOUBLE-3R (KUD 1210/6.35 Z3R)	21722244	097758222440	1	\$46.16	
	SE-5 1/4 DOUBLE-3R (TRE 1016/6.35 Z3R)	21722260	097758222600	1	\$67.36	 WRC & SC Series
	SF-5 1/4 DOUBLE-3R (RBF 1225/6.35 Z3R)	21722276	097758222761	1	\$64.80	
	SG-3 1/4 DOUBLE-3R (SPG 1020/6.35 Z3R)	21722294	097758222945	1	\$55.60	
	SG-5 1/4 DOUBLE-3R (SPG 1225/6.35 Z3R)	21722296	097758222969	1	\$63.28	
	SL-4 1/4 DOUBLE-3R (KEL 1225/6.35 Z3R)	21722346	097758223461	1	\$73.76	 SD Series
Carbide Burrs - 6mm - 'TUFF Series' - 3R						
	ZYAS 1020/6 3R	21000005	4007220770023	1	\$84.56	 SE Series
	ZYAS 0820/6 3R	21000003	4007220769997	1	\$73.84	
	B 1230/6 3R	21000026	4007220770085	1	\$120.32	
	B 0820/6 3R	21000023	4007220770061	1	\$74.96	
	WRC 1225/6 3R	21000036	4007220770122	1	\$115.00	 RBF & SF Series
	WRC 1020/6 3R	21000035	4007220770115	1	\$78.40	
	RBF 1225/6 3R	21000076	4007220770214	1	\$104.24	
	RBF 1020/6 3R	21000075	4007220770207	1	\$96.40	 SPG & SG Series
	SPG 1225/6 3R	21000097	4007220770283	1	\$100.88	
	SPG 1020/6 3R	21000095	4007220770252	1	\$86.64	 SL Series
Carbide Burr Sets - 1/4"- TUFF Series - 3R						
Assorted	10 Piece Set	26006172	4007220904107	1	\$395.00	
Set Contents:	SA-3, SA-5, SC-3, SC-5, SD-5, SE-5, SF-5, SG-3, SG-5, SL-4					
Assorted	5 Piece Set	26006171	4007220904091	1	\$195.00	
Set Contents:	SA-3, SC-3, SC-5, SF-5, SG-5					
Tungsten Carbide Burrs - INOX Burrs						
Carbide Burrs - 6mm - INOX - Stainless Steel Burrs						
	ZYA 0616/6 INOX	N! 21101682	4007220900499	1	\$54.50	 ZYA Series
	ZYA 1225/6 INOX	N! 21101982	4007220900505	1	\$104.70	
	KUD 0605/6 INOX	N! 21112582	4007220900536	1	\$60.40	 KUD Series
	KUD 1210/6 INOX	N! 21112882	4007220900543	1	\$102.40	
	WRC 0616/6 INOX	N! 21105082	4007220900512	1	\$69.80	
	WRC 1225/6 INOX	N! 21105382	4007220900529	1	\$121.00	 WRC Series
	RBF 0618/6 INOX	N! 21117382	4007220900550	1	\$81.50	
	RBF 1225/6 INOX	N! 21117882	4007220900567	1	\$121.00	 RBF Series
Carbide Burr Set - 6mm - INOX Burrs						
Assorted	8 Piece Set	N! 75604004	4007220912591	1	\$320.00	
Set Contents:	All 8 of the above listed individual INOX Burrs for stainless steel					

Size mm	Description		Article No.	Barcode		List Price ea. \$	Image
Tungsten Carbide TC Burrs - Micro Burrs 6mm Shank							
Micro Burrs - For Material Hardness up to 60 HRC							
	ZYA 0616/6 MC	N!	21101676	4007220895559	1	\$69.30	 ZYA Series
	ZYA 0820/6 MC	N!	21101776	4007220895573	1	\$73.80	
	ZYA 1020/6 MC	N!	21102176	4007220895603	1	\$80.40	 WRC Series
	WRC 0616/6 MC	N!	21105076	4007220869017	1	\$77.00	
	WRC 0820/6 MC	N!	21105176	4007220869024	1	\$81.10	 RBF Series
	WRC 1020/6 MC	N!	21105276	4007220869031	1	\$89.30	
	RBF 1020/6 MC	N!	21157210	4007220835517	1	\$70.52	
Tungsten Carbide TC Specialty Burrs for GRP / CRP							
For Glass Fibre & Carbon Fibre Reinforced Plastic							
	ZYA 0625/6 PLAST ZBS		21456696	4007220900451	1	\$63.70	
FVK - Burrs for Plastic & Fibreglass							
	ZYA 0625BS/6 C FVK		21458696	4007220050217	1	\$62.68	
High Speed Steel Rotary Cutters							
High Speed Steel Rotary Cutters - 6mm Shank							
A Shape - Cylindrical							 
6 x 16	HSS A 0616ST/6 C1		22404716	4007220058602	1	\$25.30	
6 x 16	HSS A 0616ST/6 C3		22404736	4007220058626	1	\$25.30	
8 x 20	HSS A 0820ST/6 C3		22405036	4007220058640	1	\$29.50	
10 x 13	HSS A 1013ST/6 C1		22405316	4007220058657	1	\$42.00	
10 x 13	HSS A 1013ST/6 C3		22405336	4007220058671	1	\$42.00	
10 x 20	HSS A 1020ST/6 C3		22405436	4007220058695	1	\$47.14	
12 x 25	HSS A 1225ST/6 C1		22405516	4007220058701	1	\$54.20	
12 x 25	HSS A 1225ST/6 C3		22405536	4007220058725	1	\$54.20	
16 x 25	HSS A 1625ST/6 C3		22405836	4007220058763	1	\$69.60	
B Shape - Flame							
12 x 30	HSS B 1230/6 C3		22407436	4007220058794	1	\$54.20	
16 x 35	HSS B 1635/6 C3		22407836	4007220058800	1	\$72.54	
C Shape - Cylindrical Radius End							
4 x 13	HSS C 0413/6 C3		22410436	4007220058817	1	\$24.50	
6 x 16	HSS C 0616/6 C1		22410716	4007220058824	1	\$25.30	
6 x 16	HSS C 0616/6 C3		22410736	4007220058848	1	\$25.30	
8 x 20	HSS C 0820/6 C3		22411036	4007220058879	1	\$29.50	
10 x 20	HSS C 1020/6 C3		22411336	4007220058893	1	\$47.44	
12 x 25	HSS C 1225/6 C1		22411516	4007220058909	1	\$54.20	
12 x 25	HSS C 1225/6 C3		22411536	4007220058923	1	\$54.20	
16 x 25	HSS C 1625/6 C3		22411836	4007220058961	1	\$69.60	
H Shape - Tree							
6 x 18	HSS H 0618/6 C3		22431236	4007220059319	1	\$25.30	
8 x 20	HSS H 0820/6 C3		22431836	4007220059326	1	\$37.20	
10 x 20	HSS H 1020/6 C3		22432436	4007220059333	1	\$48.84	
12 x 25	HSS H 1225/6 C3		22433036	4007220059357	1	\$51.94	
16 x 30	HSS H 1630/6 C3		22434536	4007220059364	1	\$69.60	
K Shape - Pointed Tree							
6 x 18	HSS K 0618/6 C1		22440716	4007220059371	1	\$25.30	
6 x 18	HSS K 0618/6 C3		22440736	4007220059395	1	\$25.30	
10 x 20	HSS K 1020/6 C3		22441336	4007220059425	1	\$48.84	
12 x 25	HSS K 1225/6 C1		22441516	4007220059432	1	\$51.94	
12 x 25	HSS K 1225/6 C3		22441536	4007220059456	1	\$51.94	
12 x 30	HSS K 1230/6 C1		22441616	4007220059470	1	\$54.20	
12 x 30	HSS K 1230/6 C3		22441636	4007220059494	1	\$54.20	
16 x 30	HSS K 1630/6 C3		22441836	4007220059531	1	\$69.60	

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image	
High Speed Steel Rotary Cutters - 6mm Shank (continued)							
F Shape - Ball							
4 x 3	HSS F 0403/6 C1	22418816	4007220058978	1	\$26.00		
4 x 3	HSS F 0403/6 C3	22418836	4007220058992	1	\$26.00		
6 x 5	HSS F 0605/6 C3	22419736	4007220059029	1	\$25.30		
8 x 7	HSS F 0807/6 C1	22420016	4007220059043	1	\$42.00		
8 x 7	HSS F 0807/6 C3	22420036	4007220059067	1	\$42.00		
10 x 9	HSS F 1009/6 C3	22420336	4007220059098	1	\$48.84		
12 x 10	HSS F 1210/6 C1	22420516	4007220059111	1	\$58.50		
12 x 10	HSS F 1210/6 C3	22420536	4007220059135	1	\$58.50		
16 x 14	HSS F 1614/6 C1	22420816	4007220059159	1	\$69.60		
16 x 14	HSS F 1614/6 C3	22420836	4007220059173	1	\$69.60		
G Shape - Conical Pointed							
6 x 18	HSS G 0618/6 C1	22422716	4007220059197	1	\$25.30		
6 x 1	HSS G 0618/6 C3	22422736	4007220059210	1	\$25.30		
10 x 20	HSS G 1020/6 C1	22423316	4007220059234	1	\$42.00		
10 x 20	HSS G 1020/6 C3	22423336	4007220059258	1	\$42.00		
12 x 25	HSS G 1225/6 C1	22423516	4007220059272	1	\$54.20		
12 x 25	HSS G 1225/6 C3	22423536	4007220059296	1	\$54.20		
L Shape - Conical Radius End							
10 x 20	HSS L 1020/6 C3	22450136	4007220059579	1	\$46.14		
12 x 25	HSS L 1225/6 C3	22450736	4007220059593	1	\$51.50		
12 x 30	HSS L 1230/6 C3	22451236	4007220059609	1	\$54.20		
16 x 30	HSS L 1630/6 C3	22451836	4007220059630	1	\$69.60		
16 x 30	HSS L 1630/6 C ALU	22451816	4007220059616	1	\$60.40		
O Shape - Oval							
6 x 10	HSS O 0610/6 C3	22460136	4007220059678	1	\$27.24		
10 x 16	HSS O 1016/6 C3	22460836	4007220059692	1	\$46.60		
12 x 20	HSS O 1220/6 C1	22461416	4007220059708	1	\$48.74		
12 x 20	HSS O 1220/6 C3	22461436	4007220059722	1	\$48.84		
16 x 25	HSS O 1625/6 C ALU	22461816	4007220059746	1	\$68.30		
16 x 25	HSS O 1625/6 C3	22461836	4007220059760	1	\$69.60		
W Shape - Inverted Cone							
12 x 13	HSS W 1213ST/6 C3	22471236	4007220059784	1	\$43.90		
Rotary Cutter Sets							
Assorted	81 HSS	22900813	4007220060957	1	\$362.60		
Set Contents:	Set of 10 Standard Cutters in a plastic box HSS A 0616 ST/6 C3, HSS K 0618/6 C3, HSS A 1013 ST/6 C3, HSS K 1230/6 C3, HSS A 1225/6 C3, HSS K 1630/6 C3, HSS C 0616/6 C3, HSS F 1210/6 C3, HSS C 1225/6 C3, HSS L 1630/6 C3						
Assorted	82 HSS	22900823	4007220060988	1	\$407.90		
Set Contents:	Set of 10 Standard and Finishing Cutters in a plastic box HSS A 1013 ST/6 C3, HSS L 1020/6 C3, HSS A 1625 ST/6 C3, HSS L 1630/6 C3, HSS K 1630/6 C3, HSS O 1625/6 C3, HSS F 1614/6 C3, HSS W 1220/6 C3, HSS G 1020/6 C3, HSS 45/6 C3						
Rotary Cutters - Special Shapes							
18 x 58	HSS 45/6 C3	22104536	4007220056035	1	\$48.74		
20 x 60	HSS 55/6 C3	22105536	4007220056424	1	\$26.40		
30 x 70	HSS 63/6 C3	22106336	4007220056738	1	\$54.20		
30 x 70	HSS 64/6 C3	22106436	4007220056776	1	\$54.20		

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Tungsten Carbide Burr Cabinets						
Burr Cabinets						
104 & 56pcs		N!	104pce  295mm 260mm 352mm 56pce  295mm 260mm 193mm			
Each PFERD burr cabinet displays a range shapes including cylindrical, cylindrical radius, flame, ball, conical, conical radius, tree and pointed tree. A range of ALU burrs developed for aluminium work, and a selection of 3R TUFF burrs for those high impact applications have been added to each burr cabinet. Cabinets are available in either 1/4" or 6.0mm shank diameters to suit your needs.						
Contact PFERD for more details on: 1300 0 PFERD						
Hole Saws						
Bi-Metal - Hole Saws						
14	LS 14	25100114	4007220319086	1	\$9.84	
16	LS 16	25100116	4007220062319	1	\$9.84	
17	LS 17	25100117	4007220319093	1	\$9.84	
19	LS 19	25100119	4007220062326	1	\$9.84	
20	LS 20	25100220	4007220062333	1	\$9.84	
21	LS 21	25100221	4007220319109	1	\$10.08	
22	LS 22	25100322	4007220062340	1	\$10.08	
24	LS 24	25100424	4007220319116	1	\$10.84	
25	LS 25	25100425	4007220062357	1	\$10.84	
27	LS 27	25100527	4007220062364	1	\$10.84	
29	LS 29	25100629	4007220062371	1	\$10.84	
30	LS 30	25100730	4007220062388	1	\$11.80	
32	LS 32	25100832	4007220062395	1	\$12.56	
33	LS 33	25100933	4007220062401	1	\$13.00	
35	LS 35	25101035	4007220062418	1	\$13.00	
38	LS 38	25101138	4007220062425	1	\$14.20	
40	LS 40	25101240	4007220319130	1	\$14.36	
41	LS 41	25101241	4007220062432	1	\$14.36	
43	LS 43	25101343	4007220319147	1	\$15.72	
44	LS 44	25101344	4007220062449	1	\$15.72	
46	LS 46	25101346	4007220319154	1	\$15.72	
48	LS 48	25101448	4007220062456	1	\$15.72	
51	LS 51	25101551	4007220062463	1	\$15.72	
52	LS 52	25101552	4007220319161	1	\$15.72	
54	LS 54	25101654	4007220062470	1	\$16.72	
57	LS 57	25101757	4007220062487	1	\$16.72	
60	LS 60	25101860	4007220062494	1	\$19.60	
64	LS 64	25101963	4007220062500	1	\$19.60	
65	LS 65	25101965	4007220319185	1	\$19.60	
67	LS 67	25102067	4007220062517	1	\$21.64	
70	LS 70	25102170	4007220062524	1	\$21.64	
73	LS 73	25102273	4007220062531	1	\$21.64	
76	LS 76	25102376	4007220062548	1	\$21.64	
79	LS 79	25102479	4007220062555	1	\$23.00	
83	LS 83	25102583	4007220062562	1	\$27.52	
86	LS 86	25102586	4007220319192	1	\$29.40	
89	LS 89	25102689	4007220062579	1	\$29.40	
92	LS 92	25102792	4007220062586	1	\$29.40	
95	LS 95	25102895	4007220062593	1	\$29.40	
102	LS 102	25102912	4007220062609	1	\$31.40	
105	LS 105	25103015	4007220062616	1	\$35.32	
114	LS 114	25103114	4007220062623	1	\$38.28	
121	LS 121	25103221	4007220319239	1	\$41.92	
127	LS 127	25103227	4007220319246	1	\$42.16	
140	LS 140	25103440	4007220319253	1	\$44.20	
152	LS 152	25103552	4007220319260	1	\$54.72	

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image	
Hole Saws							
Bi-Metal - Hole Saw Sets							
Assorted	LS-SO 7 (7 Piece Set)	25900710	4007220819869	1	\$92.12		
Set Contents:	LS20, LS22, LS25, LS32, LS40, LSS4, LSA Hole Saw Sizes: 20mm, 22mm, 25mm, 32mm and 40mm						
Assorted	LS-SO 9 (9 Piece Set)	25900930	4007220819883	1	\$156.64		
Set Contents:	As above PLUS LS51 and LSS2 Hole Saw Sizes: 20mm, 22mm, 25mm, 32mm, 40mm and 51mm						
Assorted	LS-SO 13 (13 Piece Set)	25900020	4007220819852	1	\$191.96		
Set Contents:	As above PLUS LS44, LS57, LS64, LSB 6/90 Hole Saw Sizes: 20mm, 22mm, 25mm, 32mm, 40mm, 44mm, 51mm, 57mm and 64mm						
Hole Saw Arbors							
	LSS 1	25200111	4007220062630	1	\$15.72	    	
	9.53mm - 3/8" HEX SHANK 1/2" - 20UNF Suits LS14-30mm						
	LSS 2	25200211	4007220062647		\$23.60		
	9.53mm - 3/8" HEX SHANK 5/8" - 18UNF Suits LS 32-152mm						
	LSS 4	25200407	4007220062661	1	\$11.80		
	6.35mm - 1/4" ROUND SHANK 1/2" - 20UNF Suits LS14-30mm						
	LSS 6	25200608	4007220062685	1	\$24.52	 	
	9.53mm - 3/8" HEX SHANK 1/2" - 20UNF Suits LS 14-30mm						
	LSS 8	25200810	4007220319277	1	\$26.52		
	9.53mm - 3/8" HEX SHANK 5/8" - 18UNF Suits LS 32-152mm						
Quick Change Hole Saw Mounting System							
	QUICK CHANGE SYSTEM PSL 11	N!	25200900	4007220900185	1	\$53.50	  
	ADAPTOR-SET AS-PSL LS14 - LS30	N!	25200910	4007220900215	1	\$16.40	
	ADAPTOR-SET AS-PSL LS30 - LS152	N!	25200920	4007220900192	1	\$18.30	
							
Hole Saw Accessories							
	LSA - Adapter (Suits Arbors LSS 1 & LSS 4)	25203001	4007220319291	1	\$5.92		
	SS2 - Grub Screw (To lock Pilot Drill)	28901014	4007220396131	1	\$1.76		
	6/60 - Pilot Drill (Suits LSS 1 & LSS 4)	25202005	4007220319284	1	\$5.92		
	6/90 (All other) - Pilot Drill (Suits LSS 4)	25202007	4007220062708	1	\$5.92		

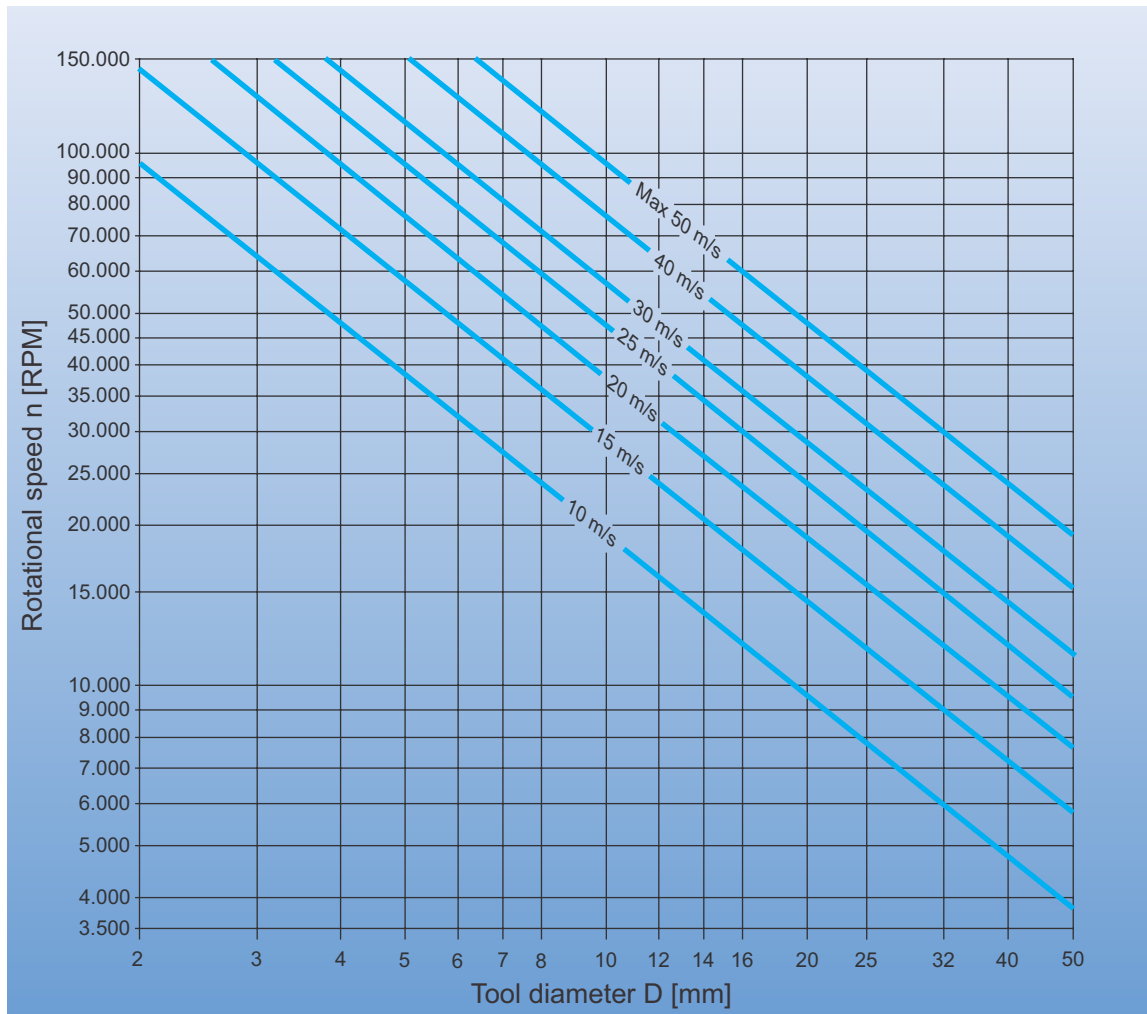


Cutting speeds of mounted points

The below diagram allows you to determine the rotational speed (RPM) from a given peripheral speed. Recommended cutting speeds are stated in the introductory descriptions for the various hardness grades on the following pages.

The diagram, rotational speeds (RPM) are represented by blue diagonal lines. Each vertical line represents a tool diameter. From its point of intersection with the diagonal line for a given peripheral speed, proceed horizontally to the left margin where you will find the corresponding rotational speed (RPM) of the grinding tool and spindle.

Example: Mounted point: dia. 20mm
Hardness grade: 0
Cutting speed: 25 - 40 m/s
Rotational speed: 24,000 - 38,000 RPM



Safety recommendations



All mounted points supplied by PFERD are approved for a maximum peripheral speed of 50 m/s.

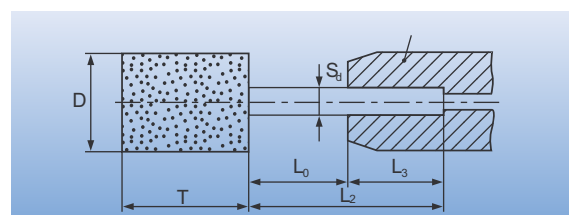
Maximum RPM levels for the various shank lengths and shank diameters are defined in DIN 69170 based on EN 12413. These limits must be strictly observed to prevent hazards due to shank buckling.

Regardless of the shank length, the clamping depth (L_3) in the machine collet must be at least 10mm.

Each package of PFERD mounted points comes with RPM recommendations for a given unsupported shank length (L_0) of that product. Please ensure the concentric accuracy and correct clamping function of the drive.

The buckling speed (RPM) calculated in accordance with EN 12413 is determined by the following factors.

- Shape and dimensions of the mounted point
- Diameter of the steel shank S_d
- Unsupported shank length L_0



D = Mounted point diameter
T = Width of mounted point
 S_d = Shank diameter
 L_0 = Unsupported shank length
 L_2 = Shank length
 L_3 = Clamping length of shank

Mounted Points

General Information



PFERD offers a very extensive line of vitrified and resinoid-bonded mounted points.

Designed to meet individual application needs, these products come in a broad range of grain types, grit sizes, hardness levels and shapes. The mounted points are manufactured on advanced production lines to high standards of dimensional accuracy and stability, consistent quality, and close tolerances.

To select the correct mounted point, the material, main fields of application and specific operating requirements have to be taken into consideration. This overview shows which different types (abrasives, bonds and hardness grades) are recommended for the various materials and the tasks at hand.

How do I find the best mounted point? Material

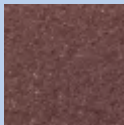
Normally it is necessary to determine the material to be machined. The various material

groups are colour-coded and shown on the left-hand side of the chart below.

Application

The application must then be selected according to the type of work on the material. We make the following differentiation:

- General use,
- surface grinding and
- edge grinding applications.

Material groups			Bond [☰]	Resinoid bond	
			Hardness grade [☰]	Hardness L	Hardness N
			Abrasive grit type [☰]	ADW	AN
					
			Recommended cutting speed [☰]	35-50 m/s	35-50 m/s
			Application [^]		
Steel, cast steel	Non-hardened, non-heat-treated steels up to 1200 N/mm² (< 38 HRC)	Construction steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels	General use on edge and surface		
			Surface grinding with high stock removal		
			Edge grinding with high form stability		
	Hardened, heat-treated steels exceeding 1200 N/mm² (> 38 HRC)	Tool steels, tempering steels, alloyed steels	General use on edge and surface		
			Surface grinding with high stock removal		
			Edge grinding with high form stability		
	Cast steels	Non-alloyed cast steels, low-alloyed cast steels	Surface grinding with high stock removal		
			Edge grinding with high form stability		
Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic stainless steels	Surface grinding with high stock removal	●	
			Edge grinding with high form stability		●
Non-ferrous metals	Soft non-ferrous metals	Alu-alloys, brass, copper, zinc	General use on edge and surface		
	Hard non-ferrous metals	Bronze, titanium, titanium alloys, hard aluminium alloys		●	
	High-temperature resistant materials	Nickel based alloys, cobalt based alloys (aircraft engine and turbine construction)			
Cast iron	Grey cast iron, white cast iron	Cast iron with fake graphite EN-GJL, with nodular graphite cast iron EN-GJS, white annealed cast iron EN-GJMW, black cast iron EN-GJMB	Surface grinding with high stock removal		
			Edge grinding and grinding of burning-in with high form stability		
Plastics and other materials		FRP, thermoplastics, rubber, wood	General use on edge and surface		

● = highly suitable

= suitable

* = extra models for foundries

It is necessary to differentiate the selection criteria into material, application and required surface finish to find the optimum mounted point and correct bond type. The mounted point bond and the grain mix have an impact on the grinding output, tool life and aggressiveness of the tools.

- For **general use**, the emphasis is on the balance between grinding output and tool life.
- In **surface grinding**, the mounted points are subject to fewer loads. This is why the

mounted point bond is comparatively soft and designed to give high stock removal.

- If **edge grinding**, the mounted points must be dimensionally stable. This is why the mounted point bond is comparably hard and designed for a long tool life.

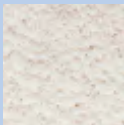
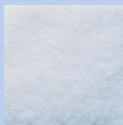
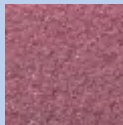
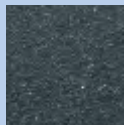
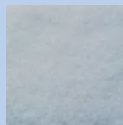
Mounted point hardness

After determining the application (see column), the hardness can be selected in the horizontal row. The "highly suitable" bond is shown with a black dot (•). The hardness

grades within the bonds are arranged from "soft" to "hard".

Refer to the catalogue page

for more information about the hardnesses, mounted point shapes, dimensions and grit sizes, the corresponding catalogue pages are stated in the table.

Vitrified bond									
Hardness D	Hardness F-ALU	Hardness H	Hardness I	Hardness J	Hardness K	Hardness M	Hardness O	Hardness R	Hardness T
AH	CN	AWN	AW	AWCO	ARN	ADW	AR	CU	AW
									
5-20 m/s	20-40 m/s	30-50 m/s	30-50 m/s	30-50 m/s	30-50 m/s	30-50 m/s	25-40 m/s	30-50 m/s	15-20 m/s
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Mounted Points

General Information



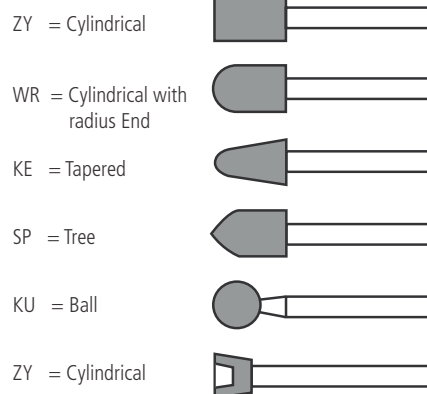
Codes

According to EN 12413 Cylindrical mounted point

ZY 2025 6 AR 30 O 5 V

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Tool shapes



US - shapes according to ANSI B74.2
Series W (Cylindrical in inch-dimensions)
Series A and B (other shapes)

② Dimensions

According to ISO 525
Dia. D x width T mm
e.g. D x T = ISO designation
3mm x 6mm = 0306
20mm x 25mm = 2025
50mm x 13mm = 5013

US dimensions - Series W Cylindrical mounted points and series A + B shaped mounted points are specified by a number (e.g. W143)

③ Shanks

Please state the shank diameter in your order number. Shank lengths are factory-defined according to shank diameter as follows:
3mm dia. x 30mm shank length
6mm dia. x 40mm shank length
8mm dia. x 40mm shank length
1/8" dia. x 1 1/4" shank length
1/4" dia. x 1 1/2" shank length

④ Abrasives

As a rule, two types of abrasives with internationally defined designations according to ISO 525 are used.

A = aluminium oxide (Al_2O_3)

C = silicon carbide (SiC)

In order to specify the exact type of abrasive or grain mixture, further classification - beyond this ISO 525 is necessary. The following classification is used:

AD = aluminium oxide, dark red

AW = aluminium oxide, white

AR = aluminium oxide, pink

AN = aluminium oxide, regular

AH = bubble grain

CN = silicon carbide, green

CU = silicon carbide, grey

CO = ceramic grit

ADW = alum. oxide mixture AD + AW

AWN = alum. oxide mixture AW + AN

ARN = alum. oxide mixture AR + AN

ADR = alum. oxide mixture AD + AR

AWCO = alum. mixture AW + CO

⑤ Grit sizes

Grit sizes are specified according to ISO 525 and ISO 8486.

The grit sizes of PFERD mounted points are correlated to the shape and diameter of the point.

⑥ Hardness grades

Abrasive hardness grades are classified according to ISO 525, using letters in alphabetical order to specify the hardness on an incremental scale (from soft to hard)

⑦ Structure number

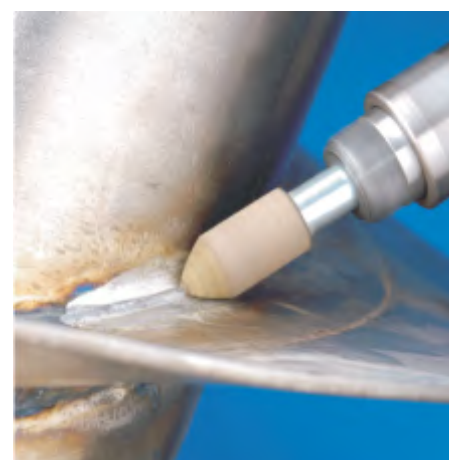
The density of the structure, indicated in accordance with ISO 525 is given in the order number. The scale ranges from 1 = dense structure to 14 = open (porous) structure

⑧ Bond

Bond types are designated by an internationally standardized letter code according to ISO 525.

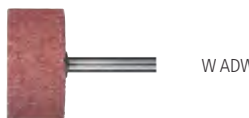
V = vitrified bond

B = resinoid bond



PRODUCT DESCRIPTION	PAGE	PRODUCT DESCRIPTION	PAGE	PRODUCT DESCRIPTION	PAGE
Mounted Points	35	Mounted Points Special Applications	36	Cylindrical Euro ZY Series - 6mm Shank	37
A Shapes - 1/4" (6.3) & 6mm Shank	35	Special for Cast Iron	36	Other Euro Shapes - 3mm & 6mm Shank	37
B Shapes - 1/8" (3.1) & 3mm Shank	35	Special for Tool Sharpening	36	Ceramic Grain Mounted Points	37
W Shapes (Cylindrical) - 1/8" (3.1) & 3mm Shank	35-36	Special for Stainless Steel (INOX)	36	Special for Aluminium	37
W Shapes (Cylindrical) - 1/4" (6.3) & 6mm Shank	36	Cylindrical Euro ZY Series - 3mm Shank	37	Sets & Assortments	37
				Dressing Stone	37

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Mounted Points						
A Shapes - 1/4" (6.3) & 6mm Shank						
19 x 64	A1 6.3 ADW 30 M 5 V	35001253	4007220114582	10	\$8.50	 A1
19 x 64	A1 6.3 AR 30 O 5 V	35001273	4007220114599	10	\$8.50	 A2
25 x 32	A2 6.3 AR 30 O 5 V	35002273	4007220114612	10	\$6.74	 A3
25 x 70	A3 6.3 AR 30 O 5 V	35003273	4007220114636	10	\$9.62	 A4
32 x 32	A4 6.3 AR 30 O 5 V	35004273	4007220114650	5	\$7.20	 A5
19 x 29	A5 6.3 AR 30 O 5 V	35005273	4007220114667	10	\$5.84	 A11
22 x 50	A11 6 AR 30 O 5 V	35511273	4007220117200	10	\$8.00	 A12
22 x 50	A11 6.3 AR 30 O 5 V	35011273	4007220114698	10	\$8.00	 A15
22 x 50	A11 6.3 ADW 30 M 5 V	39101693	4007220473399	10	\$7.70	 A21
22 x 50	A11 6.3 AWE 36 T 5 V	39101795	4007220559727	10	\$7.70	 A24
17 x 32	A12 6.3 AR 30 O 5 V	35012273	4007220114711	10	\$6.66	 A25
6 x 27	A15 6.3 AR 60 O 5 V	35015296	4007220114759	10	\$5.66	 A26
25 x 25	A21 6.3 AR 30 O 5 V	35021273	4007220114766	10	\$6.16	 A36
6 x 19	A24 6.3 AR 60 O 5 V	35024276	4007220114803	10	\$4.32	 A37
6 x 19	A24 6.3 AR 60 O 5 V 1/4-60 (Long Shank)	39101328	4007220218259	10	\$4.72	
25	A25 6.3 AR 30 O 5 V	35025273	4007220114810	10	\$7.10	
16	A26 6.3 AR 30 O 5 V 1/4-60 (Long Shank)	39100962	4007220141663	10	\$4.72	
41 x 10	A36 6.3 AR 60 O 5 V	35036276	4007220114902	5	\$5.94	
32 x 6	A37 6.3 AR 60 O 5 V	35037276	4007220114919	5	\$6.34	
B Shapes - 1/8" (3.1) & 3mm Shank						
10 x 19	B52 3 AR 46 O 5 V	35612274	4007220117514	10	\$5.58	 B52
6 x 13	B54 3 AR 100 O 5 V	35614270	4007220117552	10	\$3.92	 B54
13 x 3	B73 3 AR 100 O 5 V	35633270	4007220117705	10	\$4.82	 B73
3 x 6	B96 3.1 AR 100 O 5 V	35156270	4007220115435	10	\$4.32	 B96
11 x 17	B111 3 AR 80 O 5 V	35671278	4007220117910	10	\$4.90	 B111
3	B122 3 AR 80 O 5 V	35682278	4007220118009	10	\$3.96	 B122
5	B123 3.1 AR 100 O 5 V	35183270	4007220115701	10	\$4.32	 B123
6	B125 3.1 AR 100 O 5 V	35185270	4007220115732	10	\$4.32	 B125
W Shapes (Cylindrical) - 1/8" (3.1) & 3mm Shank						
3 x 10	W145 3 AR 100 O 5 V	35805270	4007220118139	10	\$3.56	
3 x 13	W146 3 AR 100 O 5 V	35806270	4007220118146	10	\$4.04	
4 x 6	W149 3 AR 60 O 5 V	35809276	4007220118160	10	\$3.56	
5 x 6	W152 3 AR 100 O 5 V	35812270	4007220118191	10	\$3.56	
						 W AR

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Mounted Points						
W Shapes (Cylindrical) - 1/8" (3.1) & 3mm Shank (continued)						
5 x 13	W154 3 AR 60 O 5 V	35814276	4007220118245	10	\$3.56	
5 x 13	W154 3 AR 100 O 5 V	35814270	4007220118238	10	\$3.56	
6 x 10	W162 3 AR 60 O 5 V	35822276	4007220118320	10	\$3.56	
6 x 10	W162 3 AR 100 O 5 V	35822270	4007220118313	10	\$3.56	
6 x 19	W164 3 AR 100 O 5 V	35824270	4007220118351	10	\$3.82	
8 x 13	W170 3 AR 46 O 5 V	35830274	4007220118399	10	\$3.56	
10 x 3	W173 3 AR 60 O 5 V	35833276	4007220118429	10	\$3.74	
10 x 10	W175 3 AR 46 O 5 V	35835274	4007220118450	10	\$3.56	
10 x 10	W175 3 AR 80 O 5 V	35835278	4007220118467	10	\$3.56	
16 x 3	W191 3 AR 60 O 5 V	35851276	4007220118580	10	\$3.74	
19 x 3	W200 3 AR 60 O 5 V	35860276	4007220118627	10	\$3.92	
25 x 3	W215 3.1 AR 100 O 5 V	39101489	4007220348314	10	\$4.82	
W Shapes (Cylindrical) - 1/4" (6.3) & 6mm Shank						 
16 x 12	W194 6 AR 60 O 5 V	39101731	4007220489949	10	\$3.28	
38 x 12	W236 6.3 AR 46 O 5 V	39101225	4007220143391	5	\$5.44	
40 x 25	W237 6.3 AR 30 O 5 V	39100968	4007220141694	5	\$5.44	
50 x 25	W242 6.3 ADW 46 M 5 V	39101318	4007220144312	5	\$8.18	
Mounted Points - Special Applications						
Special for Cast Iron						   
25 x 25	W220 6.3 CU 30 R 5 V	39101835	4007220604724	10	\$5.76	
40 x 63	ZY4063 M12 CU 16 Q B †	39008004	4007220542811	10	\$17.60	
40 x 63	ZY4063 M12 ADW 24 M V †	39007287	4007220395332	10	\$29.70	
25 x 70	A3 6 CU 30 R 5 V	35503503	4007220117156	10	\$10.12	
22 x 50	A1 1 6 CU 30 R 5 V	35511503	4007220117217	10	\$7.70	
38 x 12	W236 6.3 CU 30 R 5 V	39101228	4007220143421	5	\$5.44	
40 x 20	ZY4020 6 CU 24 R 5 V	31330502	4007220100103	5	\$7.88	
† M12 Threaded Hole						
Special for Tool Sharpening						
25 x 25	A38 6.3 CN 60 J V	39101459	4007220314784	10	\$4.72	
38 x 12	W236 6.3 CN 60 K 5 V	39101671	4007220454336	5	\$5.44	
Special for Stainless Steel (INOX)						
16 x 32	ZY1632 6 ADW 30 L 6 B	31127743	4007220096697	10	\$6.08	
20 x 25	ZY2025 6 ADW 30 L 6 B	31131743	4007220097083	10	\$5.84	
20 x 25	ZY2025 6 ADW 60 L 6 B	31131746	4007220346914	10	\$5.84	
20 x 40	ZY2040 6 ADW 30 L 6 B	31133743	4007220097304	10	\$7.60	
25 x 13	ZY2513 6 ADW 30 L 6 B	31323743	4007220099483	10	\$5.84	
25 x 25	ZY2525 6 ADW 30 L 6 B	31134743	4007220346938	10	\$6.88	
25 x 32	ZY2532 6 ADW 30 L 6 B	31135743	4007220097533	10	\$7.38	
32 x 16	ZY3216 6 ADW 24 L 6 B	31326742	4007220099742	5	\$6.66	
32 x 40	ZY3240 6 ADW 24 L 6 B	31137742	4007220097793	5	\$9.32	
40 x 10	ZY4010 6 ADW 30 L 6 B	31328743	4007220099940	5	\$6.66	
40 x 20	ZY4020 6 ADW 24 L 6 B	31330742	4007220100127	5	\$7.52	
50 x 13	ZY5013 6 ADW 30 L 6 B	31331743	4007220100271	5	\$8.00	
50 x 25	ZY5025 6 ADW 24 L 6 B	31332742	4007220100394	5	\$9.90	
25 x 32	WR2532 6 ADW 30 L 6 B	31408253	4007220353813	10	\$8.36	
20 x 20	KE2020 6 ADW 30 L 6 B	32205743	4007220347034	10	\$7.10	
25 x 45	KE2545 6 ADW 30 L 6 B	32211743	4007220660331	10	\$10.04	
19 x 64	A1 6 ADW 60 L 6 B	35501746	4007220347096	10	\$11.66	
22 x 50	A11 6 ADW 60 L 6 B	35511746	4007220347133	10	\$8.00	
6 x 19	A24 6 ADW 60 L 6 B	39101427	4007220293171	10	\$4.82	
50 x 8	ZY5008 6 AN 30 N 5 B	31378613	4007220100523	5	\$8.64	
32 x 32	KE3232 6 AN 24 N 5 B	32207612	4007220347072	5	\$9.62	
22 x 50	A11 6.3 AN 30 N 5 B	35011613	4007220347157	10	\$8.00	

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Mounted Points - Special Applications (continued)						
Cylindrical Euro ZY Series - 3mm Shank						
4 x 8	ZY0408 3 AR 60 O 5 V	31105276	4007220094693	10	\$3.64	 ZY AR
8 x 10	ZY0810 3 AR 46 O 5 V	31112274	4007220095355	10	\$4.22	 ADW
8 x 16	ZY0816 3 AR 46 O 5 V	31114274	4007220095546	10	\$3.64	
4 x 8	ZY0408 3 AWN 60 H 5 V	31105016	4007220094648	10	\$3.28	 ZY AWN
6 x 13	ZY0613 3 AW 60 I 5 V	31110226	4007220095126	10	\$4.64	 ZY AW
Cylindrical Euro ZY Series - 6mm Shank						
13 x 25	ZY1325 6 ADW 46 M 5 V	31125254	4007220096345	10	\$5.84	 ZY ADW
16 x 4	ZY1604 6 ADW 46 M 5 V	31313254	4007220098912	10	\$4.72	
16 x 32	ZY1632 6 AH 1 D 12 V	31127901	4007220096703	10	\$7.88	 ZY AH
20 x 6	ZY2006 6 AR 80 O 5 V	31317278	4007220099131	10	\$4.14	
25 x 25	ZY2525 6 AWN 30 H 5 V	31134013	4007220097311	10	\$5.84	 ZY AR
25 x 25	ZY2525 6 AR 60 O 5 V	31134276	4007220097359	10	\$6.30	
25 x 32	ZY2532 6 AH 1 D 12 V	31135901	4007220097540	10	\$10.22	
32 x 32	ZY3232 6 ADW 24 M 5 V	31136252	4007220097595	5	\$7.70	 ZY AWN
Other Euro Shapes - 3mm & 6mm Shank						
5 x 10	SP0510 3 AW 100 T 5 V	32104320	4007220101971	10	\$5.58	 SP AW
20 x 50	SP2050 6 ADW 30 M 5 V	32111253	4007220102312	10	\$8.72	
25 x 40	SP2540 6 ADW 30 M 5 V	32114253	4007220660270	10	\$9.04	 SP ADW
20 x 32	KE2032 6 ADW 60 M 5 V	32208256	4007220660294	10	\$7.88	
25 x 25	KE2525 6 AR 30 O 5 V	32206273	4007220102541	10	\$5.94	 KE AR
25 x 25	KE2525 6 AR 60 O 5 V	32206276	4007220102558	10	\$5.94	
Ceramic Grain Mounted Points						
20 x 25	ZY2025 6 AWCO 46 J 5 V	31131338	4007220802397	10	\$7.10	 ZY AWCO
40 x 20	ZY4020 6 AWCO 46 J 5 V	31138036	4007220802434	10	\$9.32	
16 x 45	KE1645 6 AWCO 46 J 5 V	32210336	4007220802625	10	\$12.42	 KE AWCO
Special for Aluminium						
16 x 20	ZY1620 6 CN 80 F 10 V ALU	31126408	4007220096512	10	\$6.04	 ZY CN
32 x 32	ZY3232 6 CN 80 F 10 V ALU	31136408	4007220802946	10	\$9.28	
Sets & Assortments						
Set Contents:	2001 (6mm Shank) Hardness Grade O	33920131	4007220114469	1	\$51.66	
	1 of: ZY1013, ZY1320, ZY2006, ZY2013, ZY2025, KU16, WR2025, KE2032, SP1320, KE2020					
Set Contents:	2002 (3mm Shank) Hardness Grade O	33920231	4007220114476	1	\$59.48	
	1 of: ZY0408, ZY0613, ZY0802, ZY1013, ZY1303, WR0510, KU05, SP0306, SP0816 2 of: ZY0510, ZY0810, ZY1604					
Set Contents:	SSO 5300 (Counter Display) 1/4" Shank (6.3mm)	33930001	4007220114513	1	\$479.30	
	10 of: A1 6.3 ADW 30 M5V, A3 6.3 AR 30 O5V, A4 6.3 AR 30 O5V, A5 6.3 AR 30 O5V, A11 6.3 ADW 30 M5V330, A24 6.3 AR 60 O5V, A25 6.3 AR 30 O5V, A37 6.3 AR 60 O5V, W220 6.3 AR 30 O5V, W237 6.3 AR 30 O5V					
Dressing Stone						
70 x 22 x 12	SE702212 C 46 M 5 V	33899045	4007220114445	1	\$7.78	



Nearly all types of material surfaces can be worked on with coated abrasives. Coated abrasives, depending on the type, can be used for wet or dry grinding.

Coated abrasives consist of the following components:

- Backing material
- Basic bond
- Top bond
- Abrasive particles
- Active grinding layer

Different workpiece geometries have different tool demands. The PFERD 204 catalogue offers a wide range of coated abrasive tools.

- COMBICLICK® fibre discs
- Fibre discs
- COMBIDISC® and ATADISC® abrasive discs
- Abrasive spiral bands and abrasive belts
- Fan grinders and flap wheels
- Sheets and economy rolls
- POLIROLL® and POLICO®

In catalogue 206:

- POLIFAN® flap discs
- Please refer to catalogue 206 for order data on POLIFAN® flap discs.

Backing material

The bond and the abrasive grit are fixed to the backing material. The selection of backing materials differ in terms of tensile strength, flexibility and wear. Selection of backing material fitting the demand of the grinding task in mind. The PFERD range is divided into three groups:

Paper:

The main applications for coated abrasives paper backing type are in the wood-processing industry and small trade (carpenters, painters, lacquerers etc.). These coated abrasives are not widely used in industrial metal processing. Abrasives for manual grinding are generally made from paper with a mass per unit area of 70-100 g/m². Heavier papers are used to manufacture narrow and wide belts cloth for stationary machine-applications.

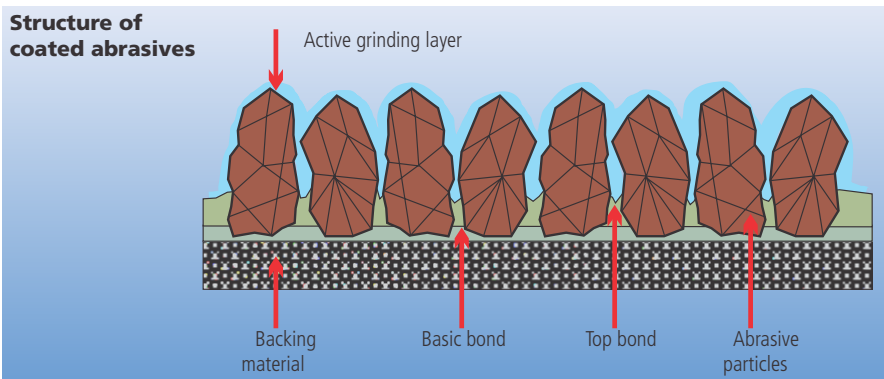
Cloth:

Coated abrasives with cloth backing are mainly used in the metal processing industry.

Vulcanized fibre:

Vulcanized fibres in different strengths, adapted for each application, are mainly used for the production of fibre discs. Vulcanized fibres provide an extremely strong, robust backing and are extremely wear-resistant.

Structure of coated abrasives



Bond

Different resin bonds are used in the manufacture of coated abrasives for anchoring the abrasive grit to the backing.

First of all, the backing material is coated with the basic bond. Then the abrasive grit is strewn evenly across the surface and aligned in a special procedure. The abrasive grit is then anchored firmly with the coating bond, which also protects the abrasive grit against forces and loads resulting from the grinding process.

Abrasive grit

Choosing the correct product strongly influences the surface finish and the economic value of a process. We recommend tools marked "COOL" in particular when working with stainless steel.

The standard materials used to make abrasive grit are:

Aluminium oxide:

Many types of aluminium oxide are used for producing abrasives. They can be used in their fused or sintered forms. Their hardness and toughness grade can be influenced using special manufacturing methods or additives. Normal aluminium oxides with a "sharp-edged" grit shape are mainly used in the production of coated abrasives.

SiC (silicon carbide):

SiC is a synthetically produced abrasive grit, which is very sharp-edged but not particularly tough, however, it has an extremely high hardness. SiC is particularly suitable for work on titanium, aluminium, bronze, stone and plastic.

Zirconia alumina:

Zirconia alumina is a fused mixture of aluminium oxide and zirconium oxide. In comparison to aluminium oxide, zirconia alumina is not as hard but it is tougher. The high proportion of zirconium oxide gives the zirconia alumina grit an exceptionally effective self-sharpening effect, giving excellent stock removal, cool grinding and top tool life.

Ceramic grit:

Sintered aluminium oxides are divided into sintered bauxite aluminium oxides and sol-gel aluminium oxides. Sol-gel aluminium oxide is mainly used for coated abrasives. This highly modern abrasive has become increasingly popular through its toughness and its good self-sharpening property.

Grit sizes

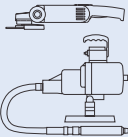
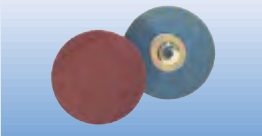
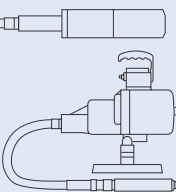
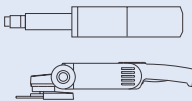
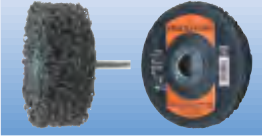
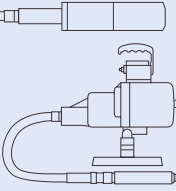
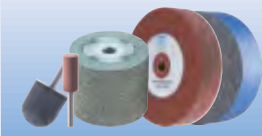
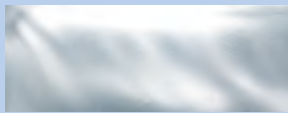
The different grit sizes for coated abrasives are defined in the ISO 6344 and adopted in the FEPA standards:

- **Coarse:**
P 80 - 60 - 50 - 40 - 36 - 24 - 20 - 16 - 12
- **Medium:**
P 280 - 240 - 220 - 180 - 150 - 120 - 100
- **Fine:**
P 600 - 500 - 400 - 360 - 320
- **Superfine:**
P 1500 - 1200 - 1000 - 800



Fine Grinding and Polishing Tools

General Information

Tool drive	Contents	Page	Processing step	Type of operation
	 		Modification of workpiece geometry 	Face-down grinding Tools for use with backing pad 
	    		Multi-step fine grinding, reducing roughness  Fine grinding Ultra fine grinding 	Peripheral grinding Mounted/unmounted tools 
			Cleaning 	
	 		Creation of visual surface effects 	
	 		Polishing 	Manual grinding 

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Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Fine Grinding & Polishing Tools						
GK - Rubber Drum Holders						
4 x 10	GK 0410/3	42100413	4007220146729	1	\$11.56	 The above image is for illustrative purposes only. To be used with applicable Spiral Band.  
4 x 10	GK 0410/6	42100410	4007220146712	1	\$11.56	
6 x 10	GK 0610/3	42100613	4007220146743	1	\$12.68	
6 x 10	GK 0610/6	42100610	4007220146736	1	\$12.68	
8 x 10	GK 0810/3	42100813	4007220146767	1	\$13.58	
8 x 10	GK 0810/6	42100810	4007220146750	1	\$13.58	
10 x 10	GK 1010/6	42101000	4007220146774	1	\$21.46	
10 x 20	GK 1020/6	42102000	4007220146781	1	\$32.58	
13 x 10	GK 1310/6	42103000	4007220146798	1	\$21.46	
13 x 25	GK 1325/6	42104000	4007220146804	1	\$32.58	
15 x 10	GK 1510/6	42105000	4007220146811	1	\$21.46	
15 x 30	GK 1530/6	42106000	4007220146828	1	\$32.58	
19 x 25	GK 1925/6	42106500	4007220146835	1	\$34.34	
22 x 20	GK 2220/6	42107000	4007220146842	1	\$27.04	
25 x 25	GK 2525/6	42107500	4007220146866	1	\$36.62	
30 x 20	GK 3020/6	42108000	4007220146873	1	\$29.52	
30 x 30	GK 3030/6	42109000	4007220146880	1	\$32.58	
38 x 25	GK 3825/6	42109500	4007220146903	1	\$37.48	
45 x 30	GK 4530/6	42110000	4007220146927	1	\$37.34	
51 x 25	GK 5125/6	42110500	4007220146941	1	\$45.00	
60 x 30	GK 6030/6	42111006	4007220146958	1	\$47.96	
75 x 30	GK 7530/8	42112000	4007220146972	1	\$52.78	
100 x 40	GK 10040/8	42113000	4007220146989	1	\$67.32	
20 x 14 x 63	GK 201463/6	42119500	4007220147078	1	\$40.50	
29 x 22 x 30	GK 292230/6	42121000	4007220147085	1	\$26.64	
36 x 22 x 60	GK 362260/6	42122000	4007220147092	1	\$42.16	

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Fine Grinding & Polishing Tools						
Abrasive Spiral Bands - Aluminium Oxide						
4 x 10	KSB 0410 A 150	42224115	4007220148860	25	\$0.94	 
6 x 10	KSB 0610 A 150	42226115	4007220148884	25	\$1.16	
8 x 10	KSB 0810 A 150	42228115	4007220148907	25	\$1.26	
10 x 10	KSB 1010 A 80	42231108	4007220148921	25	\$1.34	
10 x 10	KSB 1010 A 150	42231115	4007220148938	25	\$1.34	
10 x 20	KSB 1020 A 80	42232108	4007220148952	25	\$1.88	
10 x 20	KSB 1020 A 150	42232115	4007220148969	25	\$1.88	
10 x 20	KSB 1020 A 240	42232124	4007220148976	25	\$1.88	
13 x 10	KSB 1310 A 80	42233108	4007220148983	25	\$1.26	
13 x 10	KSB 1310 A 150	42233115	4007220148990	25	\$1.26	
13 x 25	KSB 1325 A 80	42234108	4007220149010	25	\$1.80	
13 x 25	KSB 1325 A 150	42234115	4007220149027	25	\$1.80	
15 x 10	KSB 1510 A 60	42235105	4007220149041	25	\$1.26	
15 x 10	KSB 1510 A 80	42235108	4007220149058	25	\$1.26	
15 x 10	KSB 1510 A 150	42235115	4007220149065	25	\$1.26	
15 x 30	KSB 1530 A 50	42236103	4007220149089	25	\$1.88	
15 x 30	KSB 1530 A 60	42236105	4007220149096	25	\$1.88	
15 x 30	KSB 1530 A 80	42236108	4007220149102	25	\$1.88	
15 x 30	KSB 1530 A 150	42236115	4007220149119	25	\$1.88	
15 x 30	KSB 1530 A 240	42236124	4007220149126	25	\$1.88	
19 x 25	KSB 1925 A 60	42236505	4007220149133	25	\$1.88	
19 x 25	KSB 1925 A 80	42236508	4007220149140	25	\$1.88	
19 x 25	KSB 1925 A 150	42236515	4007220149157	25	\$1.88	
19 x 25	KSB 1925 A 240	42236524	4007220149164	25	\$1.88	
22 x 20	KSB 2220 A 50	42237104	4007220149171	25	\$1.34	
22 x 20	KSB 2220 A 60	42237105	4007220149188	25	\$1.34	
22 x 20	KSB 2220 A 80	42237108	4007220149195	25	\$1.34	
22 x 20	KSB 2220 A 150	42237115	4007220149201	25	\$1.34	
25 x 25	KSB 2525 A 40	47500001	4007220818282	25	\$1.66	
25 x 25	KSB 2525 A 60	42237505	4007220149225	25	\$1.66	
25 x 25	KSB 2525 A 80	42237508	4007220149232	25	\$1.66	
25 x 25	KSB 2525 A 150	42237515	4007220149249	25	\$1.66	
30 x 20	KSB 3020 A 40	42238104	4007220149263	25	\$1.58	
30 x 20	KSB 3020 A 60	42238105	4007220149270	25	\$1.58	
30 x 20	KSB 3020 A 80	42238108	4007220149287	25	\$1.58	
30 x 20	KSB 3020 A 150	42238115	4007220149294	25	\$1.58	
30 x 30	KSB 3030 A 40	42239104	4007220149324	25	\$2.20	
30 x 30	KSB 3030 A 60	42239105	4007220149331	25	\$2.20	
30 x 30	KSB 3030 A 80	42239108	4007220149348	25	\$2.20	
30 x 30	KSB 3030 A 150	42239115	4007220149355	25	\$2.20	
38 x 25	KSB 3825 A 40	42239504	4007220149379	25	\$2.78	
38 x 25	KSB 3825 A 60	42239505	4007220149386	25	\$2.78	
38 x 25	KSB 3825 A 80	42239508	4007220149393	25	\$2.78	
38 x 25	KSB 3825 A 150	42239515	4007220149409	25	\$2.78	
45 x 30	KSB 4530 A 40	42240104	4007220149461	10	\$2.96	
45 x 30	KSB 4530 A 50	42240103	4007220149454	10	\$2.96	
45 x 30	KSB 4530 A 60	42240105	4007220149478	10	\$2.96	
45 x 30	KSB 4530 A 80	42240108	4007220149485	10	\$2.96	
45 x 30	KSB 4530 A 150	42240115	4007220149492	10	\$2.96	

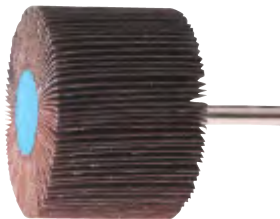
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Fine Grinding & Polishing Tools (continued)							
Abrasive Spiral Bands - Aluminium Oxide (continued)							
51 x 25	KSB 5125 A 40	42240504	4007220149515	10	\$3.10	 	
51 x 25	KSB 5125 A 60	42240505	4007220149522	10	\$3.10		
51 x 25	KSB 5125 A 80	42240508	4007220149539	10	\$3.10		
51 x 25	KSB 5125 A 150	42240515	4007220149546	10	\$3.10		
60 x 30	KSB 6030 A 40	42241104	4007220149577	10	\$3.64		
60 x 30	KSB 6030 A 60	42241105	4007220149584	10	\$3.64		
60 x 30	KSB 6030 A 80	42241108	4007220149591	10	\$3.64		
60 x 30	KSB 6030 A 150	42241115	4007220149607	10	\$3.64		
75 x 30	KSB 7530 A 40	42242104	4007220149614	10	\$4.22		
75 x 30	KSB 7530 A 60	42242105	4007220149621	10	\$4.22		
75 x 30	KSB 7530 A 80	42242108	4007220149638	10	\$4.22		
75 x 30	KSB 7530 A 150	42242115	4007220149645	10	\$4.22		
Abrasive Spiral Bands - Zirconia							
13 x 25	GSB 1325 Z 60	42217064	4007220804872	25	\$1.88	 	
13 x 25	GSB 1325 Z 80	42217065	4007220322635	25	\$1.88		
19 x 25	GSB 1925 Z 40	42217092	4007220804896	25	\$1.98		
19 x 25	GSB 1925 Z 60	42217094	4007220804940	25	\$1.98		
19 x 25	GSB 1925 Z 80	42217095	4007220804957	25	\$1.98		
25 x 25	GSB 2525 Z 40	42217112	4007220805022	25	\$2.12		
25 x 25	GSB 2525 Z 60	42217114	4007220805084	25	\$2.12		
25 x 25	GSB 2525 Z 80	42217115	4007220322710	25	\$2.12		
30 x 30	GSB 3030 Z 40	42217132	4007220805145	25	\$2.38		
30 x 30	GSB 3030 Z 50	42217133	4007220805152	25	\$2.38		
30 x 30	GSB 3030 Z 60	42217134	4007220322741	25	\$2.38		
30 x 30	GSB 3030 Z 80	42217135	4007220805185	25	\$2.38		
38 x 25	GSB 3825 Z 40	42217142	4007220805190	25	\$3.10	 	
38 x 25	GSB 3825 Z 60	42217144	4007220805206	25	\$3.10		
45 x 30	GSB 4530 Z 40	42217152	4007220805664	10	\$3.20		
45 x 30	GSB 4530 Z 60	42217154	4007220805725	10	\$3.20		
45 x 30	GSB 4530 Z 80	42217155	4007220805732	10	\$3.20		
51 x 25	GSB 5125 Z 40	42217162	4007220803943	10	\$3.28		
51 x 25	GSB 5125 Z 60	42217164	4007220803950	10	\$3.28		
51 x 25	GSB 5125 Z 80	42217165	4007220803967	10	\$3.28		
Abrasive Spiral Bands - Zirconia COOL (Top Size)							
15 x 30	GSB 1530 Z 50 COOL	42206183	4007220147887	25	\$1.58		
15 x 30	GSB 1530 Z 80 COOL	42206188	4007220147894	25	\$1.58		
15 x 30	GSB 1530 Z 150 COOL	42206285	4007220147924	25	\$1.58		
22 x 20	GSB 2220 Z 50 COOL	42207184	4007220148020	25	\$1.80		
22 x 20	GSB 2220 Z 80 COOL	42207188	4007220148037	25	\$1.80		
30 x 30	GSB 3030 Z 80 COOL	42209188	4007220148242	25	\$1.98		
45 x 30	GSB 4530 Z 36 COOL	42210182	4007220148426	10	\$2.60		
45 x 30	GSB 4530 Z 150 COOL	42210285	4007220148471	10	\$2.60		
60 x 30	GSB 6030 Z 80 COOL	42211188	4007220148600	10	\$3.28		
60 x 30	GSB 6030 Z 150 COOL	42211285	4007220148631	10	\$3.28		
Abrasive Spiral Bands - Ceramic COOL (Top Size)							
15 x 30	GSB 1530 CO-COOL 60	42206305	4007220772195	25	\$2.26	 	
15 x 30	GSB 1530 CO-COOL 80	42206308	4007220772201	25	\$2.26		
15 x 30	GSB 1530 CO-COOL 120	42206312	4007220772218	25	\$2.26		
22 x 20	GSB 2220 CO-COOL 60	42207305	4007220772225	25	\$1.62		
22 x 20	GSB 2220 CO-COOL 80	42207308	4007220772232	25	\$1.62		
22 x 20	GSB 2220 CO-COOL 120	42207312	4007220772249	25	\$1.62		
25 x 25	GSB 2525 CO-COOL 60	42207705	4007220772256	25	\$2.24		

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Fine Grinding & Polishing Tools (continued)						
Abrasive Spiral Bands - Ceramic COOL (Top Size) (continued)						
25 x 25	GSB 2525 CO-COOL 80	42207708	4007220772263	25	\$2.24	
25 x 25	GSB 2525 CO-COOL 120	42207712	4007220772270	25	\$2.24	
30 x 30	GSB 3030 CO-COOL 36	42209302	4007220772287	25	\$2.52	
30 x 30	GSB 3030 CO-COOL 60	42209305	4007220772294	25	\$2.52	
30 x 30	GSB 3030 CO-COOL 80	42209308	4007220772317	25	\$2.52	
30 x 30	GSB 3030 CO-COOL 120	42209312	4007220772331	25	\$2.52	
45 x 30	GSB 4530 CO-COOL 36	42210302	4007220772355	10	\$3.32	
45 x 30	GSB 4530 CO-COOL 60	42210305	4007220772362	10	\$3.32	
45 x 30	GSB 4530 CO-COOL 80	42210308	4007220772393	10	\$3.32	
45 x 30	GSB 4530 CO-COOL 120	42210312	4007220772409	10	\$3.32	
60 x 30	GSB 6030 CO-COOL 36	42211302	4007220772416	10	\$4.50	
60 x 30	GSB 6030 CO-COOL 60	42211305	4007220772423	10	\$4.50	
60 x 30	GSB 6030 CO-COOL 80	42211308	4007220772430	10	\$4.50	
60 x 30	GSB 6030 CO-COOL 120	42211312	4007220772447	10	\$4.50	
Polirolls - Aluminium Oxide						
6 x 25	PR 0625 A 80	42810608	4007220152300	50	\$2.12	
6 x 25	PR 0625 A 150	42810615	4007220152317	50	\$2.12	
6 x 35	PR 0635 A 80	42810708	4007220152324	50	\$2.38	
6 x 35	PR 0635 A 150	42810715	4007220152331	50	\$2.38	
9 x 25	PR 0925 A 80	42810808	4007220152348	50	\$2.38	
9 x 25	PR 0925 A 150	42810815	4007220152355	50	\$2.38	
9 x 35	PR 0935 A 80	42810908	4007220152362	50	\$2.96	
9 x 35	PR 0935 A 150	42810915	4007220152379	50	\$2.96	
12 x 25	PR 1225 A 50	42811205	4007220152386	50	\$2.70	
12 x 25	PR 1225 A 80	42811208	4007220152393	50	\$2.70	
12 x 25	PR 1225 A 150	42811215	4007220152409	50	\$2.70	
12 x 35	PR 1235 A 50	42811305	4007220152416	50	\$3.56	
12 x 35	PR 1235 A 80	42811308	4007220152423	50	\$3.56	
12 x 35	PR 1235 A 150	42811315	4007220152430	50	\$3.56	
18 x 35	PR 1835 A 50	42811805	4007220152447	50	\$5.94	
18 x 35	PR 1835 A 80	42811808	4007220152454	50	\$5.94	
18 x 35	PR 1835 A 150	42811815	4007220152461	50	\$5.94	
18 x 50	PR 1850 A 50	42811905	4007220152478	50	\$7.52	
18 x 50	PR 1850 A 80	42811908	4007220152485	50	\$7.52	
18 x 50	PR 1850 A 150	42811915	4007220152492	50	\$7.52	
10 x 25	PRK 1025 A 80	42821008	4007220152508	50	\$5.58	
10 x 25	PRK 1025 A 150	42821015	4007220152515	50	\$5.58	
12 x 25	PRK 1225 A 50	42821205	4007220152522	50	\$5.94	
12 x 25	PRK 1225 A 80	42821208	4007220152539	50	\$5.94	
12 x 25	PRK 1225 A 150	42821215	4007220152546	50	\$5.94	
12 x 35	PRK 1235 A 50	42821305	4007220152553	50	\$6.44	
12 x 35	PRK 1235 A 80	42821308	4007220152560	50	\$6.44	
12 x 35	PRK 1235 A 150	42821315	4007220152577	50	\$6.44	
15 x 35	PRK 1535 A 50	42821505	4007220152584	50	\$7.52	
15 x 35	PRK 1535 A 80	42821508	4007220152591	50	\$7.52	
15 x 35	PRK 1535 A 150	42821515	4007220152607	50	\$7.52	
10 x 50	PCO 1050 A 80	42831008	4007220152614	50	\$2.96	
10 x 50	PCO 1050 A 150	42831015	4007220152621	50	\$2.96	
Poliroll Set						
Assorted	PRS 151	49500151	4007220335727	1	\$530.90	
Set Contents:	150 POLIROLL® cartridge rolls with a suitable arbor 20 pieces each of PR 0625, A 80 and A 150 20 pieces each of PR 0925, A 80 and A 150 20 pieces each of PR 1225, A 80 and A 150 10 pieces each of PRK 1025, A 80 and A 150 10 pieces of PRK 1225 A 80					

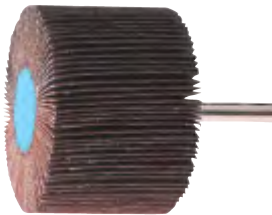
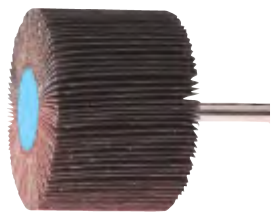
Size mm	Description	Article No.	Barcode		List Price ea. \$	Image	
Fine Grinding & Polishing Tools (continued)							
Polirolls - Ceramic COOL (Top Size)							
6 x 25	PR 0625 CO-COOL 60	42810646	4007220803264	50	\$2.86	 	
6 x 25	PR 0625 CO-COOL 80	42810648	4007220803271	50	\$2.86		
6 x 25	PR 0625 CO-COOL 120	42810650	4007220803288	50	\$2.86		
6 x 35	PR 0635 CO-COOL 60	42810746	4007220803295	50	\$3.19		
6 x 35	PR 0635 CO-COOL 80	42810748	4007220803301	50	\$3.19		
6 x 35	PR 0635 CO-COOL 120	42810750	4007220803318	50	\$3.19		
9 x 25	PR 0925 CO-COOL 60	42810846	4007220803325	50	\$3.19		
9 x 25	PR 0925 CO-COOL 80	42810848	4007220803332	50	\$3.19		
9 x 25	PR 0925 CO-COOL 120	42810850	4007220803349	50	\$3.19		
9 x 35	PR 0935 CO-COOL 60	42810946	4007220803356	50	\$4.54		
9 x 35	PR 0935 CO-COOL 80	42810948	4007220803363	50	\$4.54		
9 x 35	PR 0935 CO-COOL 120	42810950	4007220803370	50	\$4.54		
12 x 25	PR 1225 CO-COOL 60	42811246	4007220803387	50	\$3.76		
12 x 25	PR 1225 CO-COOL 80	42811248	4007220803394	50	\$3.76		
12 x 25	PR 1225 CO-COOL 120	42811250	4007220803400	50	\$3.76		
12 x 35	PR 1235 CO-COOL 60	42811346	4007220803424	50	\$4.83		
12 x 35	PR 1235 CO-COOL 80	42811348	4007220803431	50	\$4.83		
12 x 35	PR 1235 CO-COOL 120	42811350	4007220803448	50	\$4.83		
Poliroll Arbors							
	BO 3-18-3 (Suits PR 0625, PRK 1025)	42703183	4007220152171	1	\$24.92		
	BO 6-18-3 (Suits PR 0625, PR 0925, PR 1225, PRK 1025, PRK 1225)	42706183	4007220152188	1	\$22.90		
	BO 6-24-3 (Suits PR 0635, PR 0935, PR 1235, PRK 1235, PRK 1535)	42706243	4007220152195	1	\$26.86		
	BO 6-25-5 (Suits PR 1835)	42706255	4007220152201	1	\$26.86		
	BO 6-30-5 (Suits PR 1850)	42706305	4007220152218	1	\$25.64		
	BO 6-40-12 *	42706401	4007220152225	1	\$35.32		
	BO 6-50-8 (Suits PCO 1050)	42706508	4007220152232	1	\$35.00		
Policap Holders							
5 x 10	PCT 0510 A/3	42150000	4007220147139	1	\$12.60	 A Shape	
7 x 12	PCT 0712 A/3	42150005	4007220147146	1	\$13.58		
10 x 15	PCT 1015 A/3	42150010	4007220147153	1	\$13.82		
13 x 17	PCT 1317 A/6	42151015	4007220147221	1	\$13.82	 C Shape	
16 x 26	PCT 1626 A/6	42151020	4007220147238	1	\$14.12		
5 x 11	PCT 0511 C/3	42150100	4007220147160	1	\$12.60		
7 x 13	PCT 0713 C/3	42150105	4007220147177	1	\$13.58	 G Shape	
10 x 15	PCT 1015 C/3	42150110	4007220147184	1	\$13.82		
13 x 17	PCT 1317 C/6	42151115	4007220147245	1	\$13.82		
16 x 26	PCT 1626 C/6	42151120	4007220147252	1	\$14.12	 L Shape	
5 x 11	PCT 0511 G/3	42150200	4007220147191	1	\$12.38		
7 x 13	PCT 0713 G/3	42150205	4007220147207	1	\$13.58		
10 x 15	PCT 1015 G/3	42150210	4007220147214	1	\$13.82		
13 x 17	PCT 1317 G/6	42151215	4007220147269	1	\$13.82		
16 x 26	PCT 1626 G/6	42151220	4007220147276	1	\$14.12		
5 x 15	PCT 0515 L/6	42151400	4007220147283	1	\$16.74		
11 x 25	PCT 1125 L/6	42151410	4007220147290	1	\$17.42		
16 x 32	PCT 1632 L/6	42151420	4007220147306	1	\$17.68		
21 x 40	PCT 2140 L/6	42151430	4007220147313	1	\$25.52		
Policap Sets							
650 pcs	PCS 650	49606500	4007220355435	1	\$1,531.76		
Set Contents:	10 pieces each of: POLICAP® abrasive caps PC (grit size 150/280) 16 A and 16 G 25 pcs each of: POLICAP® abrasive caps PC (grit size 150/280) 10 A, 13 A, 10 G and 13 G 50 pcs each of: POLICAP® abrasive caps PC (grit size 150/280) 05 A, 007 A, 05 G and 07 G Matching Holders: 1 pce each of: POLICAP® abrasive cap holder PCT 0510 A, 0712 A, 1317 A, 1626 A, 0511 G, 0713 G, 1015 G, 1317 G & 1626 G						
110 pcs A	PCS 110 A	49601101	4007220355404	1	\$354.10		
Set Contents:	5 pcs each of: POLICAP® abrasive caps PC (grit size 60/150/280) 10 A, 13 A and 16 A						

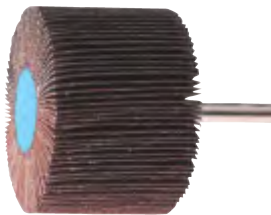
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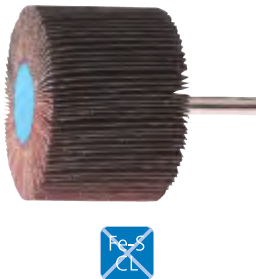
Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Fine Grinding & Polishing Tools (continued)						
Policap Sets (continued)						
10 pcs each of: POLICAP® abrasive caps PC (grit size 60/150/280) 05 A and 07 A						
Matching Holders: 1 pce each of: POLICAP® abrasive cap holder PCT 0510 A, 0712 A, 1015 A, 1317 A and 1626 A						
110 pcs C	PCS 110 C	49601103	4007220355411	1	\$354.10	
Set Contents: 5 pcs each of: POLICAP® abrasive caps PC (grit size 60/150/280) 10 C, 13 C and 16 C						
10 pcs each of: POLICAP® abrasive caps PC (grit size 60/150/280) 05 C and 07 C						
Matching Holders: 1 pce each of: POLICAP® abrasive cap holder PCT 0511 C, 0713 C, 1015 C, 1317 GC and 1626 C						
110 pcs G	PCS 110 G	49601107	4007220355428	1	\$354.10	
Set Contents: 5 pcs each of: POLICAP® abrasive caps PC (grit size 60/150/280) 10 G, 13 G and 16 G						
10 pcs each of: POLICAP® abrasive caps PC (grit size 60/150/280) 05 G and 07 G						
Matching Holders: 1 pce each of: POLICAP® abrasive cap holder PCT 0511 G, 0713 G, 1015 G, 1317 G and 1626 G						
Policaps						
5	PC 05 A G 80	42301051	4007220150788	50	\$1.66	
5	PC 05 A G 150	42301052	4007220150795	50	\$1.66	
5	PC 05 A G 280	42301053	4007220150801	50	\$1.66	
7	PC 07 A G 60	42301071	4007220150818	50	\$1.80	
7	PC 07 A G 150	42301072	4007220150825	50	\$1.80	
7	PC 07 A G 280	42301073	4007220150832	50	\$1.80	
10	PC 10 A G 60	42301101	4007220150849	50	\$1.88	
10	PC 10 A G 150	42301102	4007220150856	50	\$1.88	
10	PC 10 A G 280	42301103	4007220150863	50	\$1.88	
13	PC 13 A G 60	42301131	4007220150870	50	\$2.12	
13	PC 13 A G 150	42301132	4007220150887	50	\$2.12	
13	PC 13 A G 280	42301133	4007220150894	50	\$2.12	
16	PC 16 A G 60	42301161	4007220150900	50	\$2.48	
16	PC 16 A G 150	42301162	4007220150917	50	\$2.48	
16	PC 16 A G 280	42301163	4007220150924	50	\$2.48	
5	PC 05 C G 80	42302051	4007220150931	50	\$1.66	
5	PC 05 C G 150	42302052	4007220150948	50	\$1.66	
5	PC 05 C G 280	42302053	4007220150955	50	\$1.66	
7	PC 07 C G 60	42302071	4007220150962	50	\$1.80	
7	PC 07 C G 150	42302072	4007220150979	50	\$1.80	
7	PC 07 C G 280	42302073	4007220150986	50	\$1.80	
10	PC 10 C G 60	42302101	4007220150993	50	\$1.88	
10	PC 10 C G 150	42302102	4007220151006	50	\$1.88	
10	PC 10 C G 280	42302103	4007220151013	50	\$1.88	
13	PC 13 C G 60	42302131	4007220151020	50	\$2.12	
13	PC 13 C G 150	42302132	4007220151037	50	\$2.12	
13	PC 13 C G 280	42302133	4007220151044	50	\$2.12	
16	PC 16 C G 60	42302161	4007220151051	50	\$2.48	
16	PC 16 C G 150	42302162	4007220151068	50	\$2.48	
16	PC 16 C G 280	42302163	4007220151075	50	\$2.48	
5	PC 05 G G 80	42303051	4007220151082	50	\$1.66	
5	PC 05 G G 150	42303052	4007220151099	50	\$1.66	
5	PC 05 G G 280	42303053	4007220151105	50	\$1.66	
7	PC 07 G G 60	42303071	4007220151112	50	\$1.80	
7	PC 07 G G 150	42303072	4007220151129	50	\$1.80	
7	PC 07 G G 280	42303073	4007220151136	50	\$1.80	
10	PC 10 G G 60	42303101	4007220151143	50	\$1.88	
10	PC 10 G G 150	42303102	4007220151150	50	\$1.88	
10	PC 10 G G 280	42303103	4007220151167	50	\$1.88	
13	PC 13 G G 60	42303131	4007220151174	50	\$2.12	
13	PC 13 G G 150	42303132	4007220151181	50	\$2.12	
13	PC 13 G G 280	42303133	4007220151198	50	\$2.12	
16	PC 16 G G 60	42303161	4007220151204	50	\$2.48	
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16	PC 16 G G 280	42303163	4007220151228	50	\$2.48	

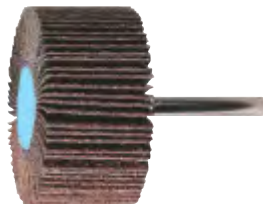
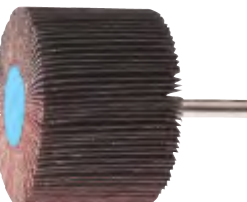
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Fine Grinding & Polishing Tools (continued)							
Policaps (continued)							
5	PC 05 L G 80	42306051	4007220151235	50	\$2.12	 L Shape 	
5	PC 05 L G 150	42306052	4007220151242	50	\$2.12		
5	PC 05 L G 280	42306053	4007220151259	50	\$2.12		
11	PC 11 L G 60	42306111	4007220151266	50	\$2.48		
11	PC 11 L G 150	42306112	4007220151273	50	\$2.48		
11	PC 11 L G 280	42306113	4007220151280	50	\$2.48		
16	PC 16 L G 60	42306161	4007220151297	50	\$2.78		
16	PC 16 L G 150	42306162	4007220151303	50	\$2.78		
16	PC 16 L G 280	42306163	4007220151310	50	\$2.78		
21	PC 21 L G 60	42306211	4007220151327	50	\$3.10		
21	PC 21 L G 150	42306212	4007220151334	50	\$3.10		
21	PC 21 L G 280	42306213	4007220151341	50	\$3.10		
Policap Abrasive Cone Holders							
5 x 85	PCT 0585 L/6	42152100	4007220147320	1	\$26.64	 PCT  GK	
11 x 85	PCT 1185 L/6	42152110	4007220147337	1	\$26.64		
16 x 85	PCT 1685 L/6	42152120	4007220147344	1	\$26.64		
21 x 85	PCT 2185 L/6	42152130	4007220147351	1	\$26.64		
20 x 14 x 63	GK 201463/6	42119500	4007220147078	5	\$40.50		
29 x 22 x 30	GK 292230/6	42121000	4007220147085	5	\$26.64		
36 x 22 x 60	GK 362260/6	42122000	4007220147092	5	\$42.16	 	
Policap Abrasive Cones							
5	PCH 05 L A 60	42330052	4007220151358	10	\$6.88		
5	PCH 05 L A 150	42330054	4007220151365	10	\$6.88		
5	PCH 05 L A 280	42330056	4007220151372	10	\$6.88		
11	PCH 11 L A 60	42330112	4007220151389	10	\$7.38		
11	PCH 11 L A 150	42330114	4007220151396	10	\$7.38		
11	PCH 11 L A 280 *	42330116	4007220151402	10	\$7.38		
16	PCH 16 L A 60	42330162	4007220151419	10	\$7.70		
16	PCH 16 L A 150	42330164	4007220151426	10	\$7.70		
21	PCH 21 L A 60	42330212	4007220151440	10	\$8.00		
20 x 65	PCH 2065 L A 60	42333012	4007220151471	10	\$7.70		
20 x 65	PCH 2065 L A 150	42333014	4007220151488	10	\$7.70		
29 x 35	PCH 2935 L A 60 *	42333114	4007220151518	10	\$6.88		
36 x 65	PCH 3665 L A 60	42333212	4007220151532	10	\$8.50		
36 x 65	PCH 3665 L A 150	42333214	4007220151549	10	\$8.50		
Fan Grinders - 3mm Shank							
10 x 10	F 1010/3 A 60	44400002	4007220661529	10	\$10.20	 	
10 x 10	F 1010/3 A 80	44400003	4007220661635	10	\$10.20		
10 x 10	F 1010/3 A 120	44400004	4007220661642	10	\$10.20		
10 x 10	F 1010/3 A 150	44400005	4007220661659	10	\$10.20		
10 x 10	F 1010/3 A 180	44400006	4007220661673	10	\$10.20		
10 x 10	F 1010/3 A 320	44400008	4007220661680	10	\$10.20		
10 x 15	F 1015/3 A 60	44400012	4007220661697	10	\$10.20		
10 x 15	F 1015/3 A 80	44400013	4007220661703	10	\$10.20		
10 x 15	F 1015/3 A 120	44400014	4007220661710	10	\$10.20		
10 x 15	F 1015/3 A 150	44400015	4007220661727	10	\$10.20		
10 x 15	F 1015/3 A 180	44400016	4007220661734	10	\$10.20		
10 x 15	F 1015/3 A 320	44400018	4007220661741	10	\$10.20		
15 x 5	F 1505/3 A 60	44400022	4007220661758	10	\$10.20		
15 x 5	F 1505/3 A 80	44400023	4007220661765	10	\$10.20		
15 x 5	F 1505/3 A 120	44400024	4007220661772	10	\$10.20		

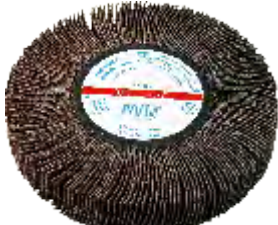
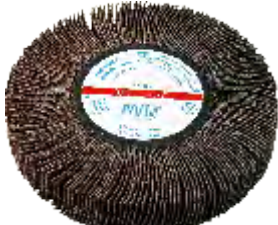
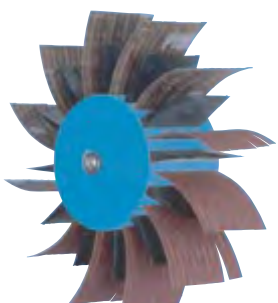
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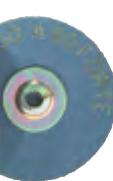
Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Fine Grinding & Polishing Tools (continued)						
Fan Grinders - 3mm Shank (continued)						
15 x 5	F 1505/3 A 150	44400025	4007220661796	10	\$10.20	 
15 x 5	F 1505/3 A 180	44400026	4007220661802	10	\$10.20	
15 x 5	F 1505/3 A 320	44400028	4007220661819	10	\$10.20	
15 x 10	F 1510/3 A 60	44400032	4007220661871	10	\$10.20	
15 x 10	F 1510/3 A 80	44400033	4007220661918	10	\$10.20	
15 x 10	F 1510/3 A 120	44400034	4007220661925	10	\$10.20	
15 x 10	F 1510/3 A 150	44400035	4007220661932	10	\$10.20	
15 x 10	F 1510/3 A 180	44400036	4007220661963	10	\$10.20	
15 x 10	F 1510/3 A 320	44400038	4007220661987	10	\$10.20	
15 x 15	F 1515/3 A 60	44400042	4007220661994	10	\$10.28	
15 x 15	F 1515/3 A 80	44400043	4007220662014	10	\$10.28	
15 x 15	F 1515/3 A 120	44400044	4007220662038	10	\$10.28	
15 x 15	F 1515/3 A 150	44400045	4007220662045	10	\$10.28	
15 x 15	F 1515/3 A 180	44400046	4007220662052	10	\$10.28	
15 x 15	F 1515/3 A 320	44400048	4007220662069	10	\$10.28	
20 x 10	F 2010/3 A 120	44400123	4007220154113	10	\$4.08	
20 x 10	F 2010/3 A 150	44400153	4007220154120	10	\$4.08	
20 x 10	F 2010/3 A 180	44400183	4007220292563	10	\$4.08	
30 x 5	F 3005/3 A 60	44401063	4007220154137	10	\$4.48	
30 x 5	F 3005/3 A 80	44401083	4007220154151	10	\$4.48	
30 x 5	F 3005/3 A 120	44401123	4007220154175	10	\$4.48	
30 x 5	F 3005/3 A 240	44401243	4007220154212	10	\$4.48	
30 x 5	F 3005/3 A 320	44401323	4007220154236	10	\$4.48	
30 x 10	F 3010/3 A 60	44402063	4007220154250	10	\$4.28	
30 x 10	F 3010/3 A 80	44402083	4007220154274	10	\$4.28	
30 x 10	F 3010/3 A 120	44402123	4007220154298	10	\$4.28	
30 x 10	F 3010/3 A 150	44402153	4007220154311	10	\$4.28	
30 x 10	F 3010/3 A 180	44402183	4007220292716	10	\$4.28	
30 x 10	F 3010/3 A 240	44402243	4007220154335	10	\$4.28	
30 x 10	F 3010/3 A 320	44402323	4007220154359	10	\$4.28	
Fan Grinders - 6mm Shank						
20 x 10	F 2010/6 A 80	44400086	4007220292594	10	\$4.08	 
20 x 10	F 2010/6 A 120	44400126	4007220292617	10	\$4.08	
20 x 10	F 2010/6 A 150	44400156	4007220292624	10	\$4.08	
20 x 10	F 2010/6 A 180	44400186	4007220292631	10	\$4.08	
25 x 10	F 2510/6 A 80	44405086	4007220536896	10	\$4.32	
25 x 10	F 2510/6 A 120	44405126	4007220536902	10	\$4.32	
25 x 10	F 2510/6 A 180	44405186	4007220536919	10	\$4.32	
25 x 15	F 2515/6 A 60	47801092	4007220253762	10	\$4.96	
25 x 15	F 2515/6 A 80	44406086	4007220154557	10	\$4.40	
25 x 15	F 2515/6 A 120	44406126	4007220154564	10	\$4.40	
25 x 15	F 2515/6 A 150	44406156	4007220154571	10	\$4.40	
25 x 15	F 2515/6 A 180	44406186	4007220292648	10	\$4.40	
25 x 20	F 2520/6 A 80	44415086	4007220536926	10	\$4.84	
25 x 20	F 2520/6 A 120	44415126	4007220536933	10	\$4.84	
25 x 20	F 2520/6 A 180	44415186	4007220536940	10	\$4.84	
25 x 25	F 2525/6 A 60	47801818	4007220557440	10	\$5.50	
25 x 25	F 2525/6 A 80	44410086	4007220292655	10	\$5.16	
25 x 25	F 2525/6 A 120	44410126	4007220292662	10	\$5.16	
25 x 25	F 2525/6 A 150	44410156	4007220292679	10	\$5.16	
25 x 25	F 2525/6 A 180	44410186	4007220292686	10	\$5.16	
30 x 5	F 3005/6 A 60	44401066	4007220154144	10	\$4.04	
30 x 5	F 3005/6 A 80	44401086	4007220154168	10	\$4.04	
30 x 5	F 3005/6 A 120	44401126	4007220154182	10	\$4.04	
30 x 5	F 3005/6 A 150	44401156	4007220154205	10	\$4.04	
30 x 5	F 3005/6 A 180	44401186	4007220292709	10	\$4.04	
30 x 5	F 3005/6 A 240	44401246	4007220154229	10	\$4.04	
30 x 5	F 3005/6 A 320	44401326	4007220154243	10	\$4.04	
30 x 10	F 3010/6 A 60	44402066	4007220154267	10	\$4.36	
30 x 10	F 3010/6 A 80	44402086	4007220154281	10	\$4.36	
30 x 10	F 3010/6 A 120	44402126	4007220154304	10	\$4.36	

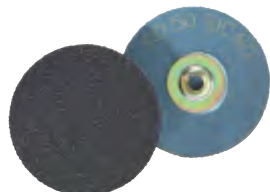
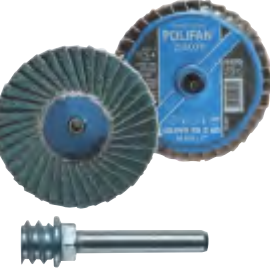
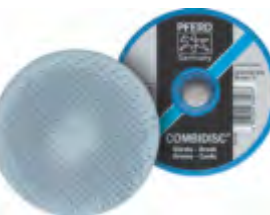
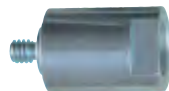
Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Fine Grinding & Polishing Tools (continued)						
Fan Grinders - 6mm Shank (continued)						
30 x 10	F 3010/6 A 150	44402156	4007220154328	10	\$4.36	 
30 x 10	F 3010/6 A 180	44402186	4007220292723	10	\$4.36	
30 x 10	F 3010/6 A 240	44402246	4007220154342	10	\$4.36	
30 x 10	F 3010/6 A 320	44402326	4007220154366	10	\$4.36	
30 x 10	F 3010/6 A 400	44402406	4007220533017	10	\$4.36	
30 x 15	F 3015/6 A 60	44409066	4007220154687	10	\$4.76	
30 x 15	F 3015/6 A 80	44409086	4007220154694	10	\$4.76	
30 x 15	F 3015/6 A 120	44409126	4007220154700	10	\$4.76	
30 x 15	F 3015/6 A 150	44409156	4007220154717	10	\$4.76	
30 x 15	F 3015/6 A 180	44409186	4007220292730	10	\$4.76	
30 x 15	F 3015/6 A 240	44409246	4007220154724	10	\$4.76	
30 x 15	F 3015/6 A 320	44409326	4007220154731	10	\$4.76	
30 x 30	F 3030/6 A 60	44411066	4007220292747	10	\$5.88	
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40 x 10	F 4010/6 A 60	44403066	4007220154373	10	\$5.04	
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40 x 15	F 4015/6 A 80	44404086	4007220154458	10	\$5.36	
40 x 15	F 4015/6 A 120	44404126	4007220154465	10	\$5.36	
40 x 15	F 4015/6 A 150	44404156	4007220154489	10	\$5.36	
40 x 15	F 4015/6 A 180	44404186	4007220292822	10	\$5.36	
40 x 15	F 4015/6 A 240	44404246	4007220154496	10	\$5.36	
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40 x 20	F 4020/6 A 60	44408066	4007220154625	10	\$6.04	
40 x 20	F 4020/6 A 80	44408086	4007220154632	10	\$6.04	
40 x 20	F 4020/6 A 120	44408126	4007220154649	10	\$6.04	
40 x 20	F 4020/6 A 150	44408156	4007220154656	10	\$6.04	
40 x 20	F 4020/6 A 180	44408186	4007220292839	10	\$6.04	
40 x 20	F 4020/6 A 240	44408246	4007220154663	10	\$6.04	
50 x 10	F 5010/6 A 60	44505066	4007220155189	10	\$6.24	
50 x 10	F 5010/6 A 80	44505086	4007220155196	10	\$6.24	
50 x 10	F 5010/6 A 120	44505126	4007220155202	10	\$6.24	
50 x 10	F 5010/6 A 150	44505156	4007220155219	10	\$6.24	
50 x 10	F 5010/6 A 180	44505186	4007220292846	10	\$6.24	
50 x 10	F 5010/6 A 240	44505246	4007220155226	10	\$6.24	
50 x 10	F 5010/6 A 320	44505326	4007220155233	10	\$6.24	
50 x 15	F 5015/6 A 60	44506066	4007220155240	10	\$6.32	
50 x 15	F 5015/6 A 80	44506086	4007220155257	10	\$6.32	
50 x 15	F 5015/6 A 120	44506126	4007220155264	10	\$6.32	
50 x 15	F 5015/6 A 150	44506156	4007220155271	10	\$6.32	
50 x 15	F 5015/6 A 180	44506186	4007220292853	10	\$6.32	
50 x 15	F 5015/6 A 240	44506246	4007220155288	10	\$6.32	
50 x 15	F 5015/6 A 320	44506326	4007220155295	10	\$6.32	
50 x 20	F 5020/6 A 60	44504066	4007220155127	10	\$6.48	
50 x 20	F 5020/6 A 80	44504086	4007220155134	10	\$6.48	
50 x 20	F 5020/6 A 120	44504126	4007220155141	10	\$6.48	
50 x 20	F 5020/6 A 150	44504156	4007220155158	10	\$6.48	
50 x 20	F 5020/6 A 180	44504186	4007220292860	10	\$6.48	
50 x 20	F 5020/6 A 320	44504326	4007220155172	10	\$6.48	
50 x 30	F 5030/6 A 40	44411546	4007220800591	10	\$7.48	
50 x 30	F 5030/6 A 60	44503066	4007220155066	10	\$7.48	
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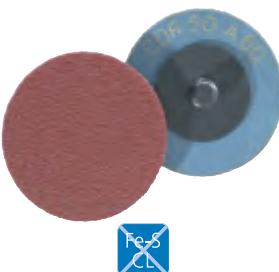
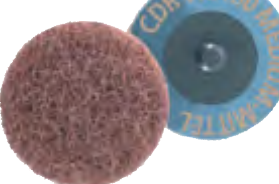
Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Fine Grinding & Polishing Tools (continued)						
Fan Grinders - 6mm Shank (continued)						
50 x 30	F 5030/6 A 120	44503126	4007220155080	10	\$7.48	
50 x 30	F 5030/6 A 150	44503156	4007220155097	10	\$7.48	
50 x 30	F 5030/6 A 180	44503186	4007220292877	10	\$7.48	
50 x 30	F 5030/6 A 240	44503246	4007220155103	10	\$7.48	
50 x 30	F 5030/6 A 320	44503326	4007220155110	10	\$7.48	
60 x 15	F 6015/6 A 60	44507066	4007220155301	10	\$6.48	
60 x 15	F 6015/6 A 80	44507086	4007220155318	10	\$6.48	
60 x 15	F 6015/6 A 120	44507126	4007220155325	10	\$6.48	
60 x 15	F 6015/6 A 150	44507156	4007220155332	10	\$6.48	
60 x 15	F 6015/6 A 240	44507246	4007220155349	10	\$6.48	
60 x 15	F 6015/6 A 320	44507326	4007220155356	10	\$6.48	
60 x 20	F 6020/6 A 60	44508066	4007220155363	10	\$7.32	
60 x 20	F 6020/6 A 80	44508086	4007220155370	10	\$7.32	
60 x 20	F 6020/6 A 120	44508126	4007220155387	10	\$7.32	
60 x 20	F 6020/6 A 150	44508156	4007220155394	10	\$7.32	
60 x 20	F 6020/6 A 240	44508246	4007220155400	10	\$7.32	
60 x 20	F 6020/6 A 320	44508326	4007220155417	10	\$7.32	
60 x 30	F 6030/6 A 40	44509046	4007220155424	10	\$8.00	
60 x 30	F 6030/6 A 60	44509066	4007220155431	10	\$8.00	
60 x 30	F 6030/6 A 80	44509086	4007220155448	10	\$8.00	
60 x 30	F 6030/6 A 120	44509126	4007220155455	10	\$8.00	
60 x 30	F 6030/6 A 150	44509156	4007220155462	10	\$8.00	
60 x 30	F 6030/6 A 240	44509246	4007220155479	10	\$8.00	
60 x 30	F 6030/6 A 320	44509326	4007220155486	10	\$8.00	
60 x 40	F 6040/6 A 60	44510066	4007220155493	10	\$9.48	
60 x 40	F 6040/6 A 80	44510086	4007220155509	10	\$9.48	
60 x 40	F 6040/6 A 120	44510126	4007220155516	10	\$9.48	
60 x 40	F 6040/6 A 150	44510156	4007220155523	10	\$9.48	
60 x 40	F 6040/6 A 240	44510246	4007220155530	10	\$9.48	
60 x 50	F 6050/6 A 40	44511046	4007220155554	10	\$10.96	
60 x 50	F 6050/6 A 60	44511066	4007220155561	10	\$10.96	
60 x 50	F 6050/6 A 80	44511086	4007220155578	10	\$10.96	
60 x 50	F 6050/6 A 120	44511126	4007220155585	10	\$10.96	
60 x 50	F 6050/6 A 150	44511156	4007220155592	10	\$10.96	
60 x 50	F 6050/6 A 240	44511246	4007220155608	10	\$10.96	
60 x 50	F 6050/6 A 320	44511326	4007220155615	10	\$10.96	
80 x 15	F 8015/6 A 60	44512066	4007220155622	10	\$8.04	
80 x 15	F 8015/6 A 80	44512086	4007220155639	10	\$8.04	
80 x 15	F 8015/6 A 120	44512126	4007220155646	10	\$8.04	
80 x 15	F 8015/6 A 150	44512156	4007220155653	10	\$8.04	
80 x 20	F 8020/6 A 60	44513066	4007220155684	10	\$8.76	
80 x 20	F 8020/6 A 80	44513086	4007220155691	10	\$8.76	
80 x 20	F 8020/6 A 120	44513126	4007220155707	10	\$8.76	
80 x 20	F 8020/6 A 150	44513156	4007220155714	10	\$8.76	
80 x 30	F 8030/6 A 40	44514046	4007220155745	10	\$11.08	
80 x 30	F 8030/6 A 60	44514066	4007220155752	10	\$11.08	
80 x 30	F 8030/6 A 80	44514086	4007220155769	10	\$11.08	
80 x 30	F 8030/6 A 120	44514126	4007220155776	10	\$11.08	
80 x 30	F 8030/6 A 150	44514156	4007220155783	10	\$11.08	
80 x 30	F 8030/6 A 240	44514246	4007220155790	10	\$11.08	
80 x 30	F 8030/6 A 320	44514326	4007220155806	10	\$11.08	
80 x 40	F 8040/6 A 60	44515066	4007220155813	10	\$13.84	
80 x 40	F 8040/6 A 80	44515086	4007220155820	10	\$13.84	
80 x 40	F 8040/6 A 120	44515126	4007220155837	10	\$13.84	
80 x 40	F 8040/6 A 150	44515156	4007220155844	10	\$13.84	
80 x 40	F 8040/6 A 240	44515246	4007220155851	10	\$13.84	
80 x 50	F 8050/6 A 40	44516046	4007220155875	10	\$15.36	
80 x 50	F 8050/6 A 60	44516066	4007220155882	10	\$15.36	
80 x 50	F 8050/6 A 80	44516086	4007220155899	10	\$15.36	
80 x 50	F 8050/6 A 120	44516126	4007220155905	10	\$15.36	
80 x 50	F 8050/6 A 150	44516156	4007220155912	10	\$15.36	
80 x 50	F 8050/6 A 240	44516246	4007220155929	10	\$15.36	
80 x 50	F 8050/6 A 320	44516326	4007220155936	10	\$15.36	

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image	
Fine Grinding & Polishing Tools (continued)							
Fan Grinders Z-COOL (INOX)							
30 x 20	F 3020/6 Z-COOL 60	44412066	4007220297353	10	\$10.92	 	
30 x 20	F 3020/6 Z-COOL 80	44412086	4007220297360	10	\$10.92		
40 x 20	F 4020/6 Z-COOL 60	44414066	4007220297377	10	\$11.80		
40 x 20	F 4020/6 Z-COOL 80	44414086	4007220297384	10	\$11.80		
50 x 20	F 5020/6 Z-COOL 60	44531066	4007220297391	10	\$13.60		
50 x 20	F 5020/6 Z-COOL 80	44531086	4007220297407	10	\$13.60		
60 x 30	F 6030/6 Z-COOL 60	44533066	4007220297414	10	\$13.60		
60 x 30	F 6030/6 Z-COOL 80	44533086	4007220297421	10	\$13.60	 	
Fan Grinders Ceramic COOL (Top Size)							
40 x 20	F 4020/6 CO-COOL 40	44408054	4007220803813	10	\$21.12		
40 x 20	F 4020/6 CO-COOL 60	44408074	4007220803820	10	\$21.12		
40 x 20	F 4020/6 CO-COOL 80	44408094	4007220803837	10	\$21.12		
40 x 20	F 4020/6 CO-COOL 120	44408134	4007220803844	10	\$21.12		
50 x 30	F 5030/6 CO-COOL 40	44411554	4007220803868	10	\$26.08		
50 x 30	F 5030/6 CO-COOL 60	44411574	4007220803875	10	\$26.08		
50 x 30	F 5030/6 CO-COOL 80	44411594	4007220803899	10	\$26.08		
50 x 30	F 5030/6 CO-COOL 120	44411634	4007220803882	10	\$26.08		
60 x 30	F 6030/6 CO-COOL 40	44411754	4007220803905	10	\$27.68	 	
60 x 30	F 6030/6 CO-COOL 60	44411774	4007220803912	10	\$27.68		
60 x 30	F 6030/6 CO-COOL 80	44411794	4007220803929	10	\$27.68		
60 x 30	F 6030/6 CO-COOL 120	44411834	4007220803936	10	\$27.68		
Fan Grinder Set							
Assorted	FSO 5400	44590001	4007220156087	1	\$314.36		
Set Contents:	5 pieces each of: F 4015/6 A 80, F 4015/6 A 120, F 5015/6 A 60, F 5015/6 A 80, F 6030/6 A 60, F 6040/6 A 80, F 6040/6 A 150, F 8030/6 A 60						
Fan Grinder Merchandiser Display							
	Size - 490mm x 550mm	49900018	4007220855874	1	\$1,473.00	 	
Display Contents:	20pieces each of: F 3015/6 A 60, F 3015/6 A 80 20pieces each of: F 4020/6 A 60, F 4020/6 A 80 20pieces each of: F 5030/6 A 60 20pieces each of: F 6030/6 A 80, F 6030/6 A 60 20pieces each of: F 8040/6 A 60						
Flap Wheels							
100 x 30	FR 10030/25.4 A 40	44710041	4007220469040	2	\$50.22		 
100 x 30	FR 10030/25.4 A 60	44710061	4007220469057	2	\$50.22		
100 x 30	FR 10030/25.4 A 80	44710081	4007220469071	2	\$50.22		
100 x 30	FR 10030/25.4 A 120	44710121	4007220469095	2	\$50.22		
165 x 30	FR 16530/25.4 A 40	44732041	4007220470091	2	\$71.18		
165 x 30	FR 16530/25.4 A 60	44732061	4007220470107	2	\$71.18		
165 x 30	FR 16530/25.4 A 80	44732081	4007220470114	2	\$78.66		
165 x 30	FR 16530/25.4 A 120	44732121	4007220470121	2	\$78.66	 	
165 x 50	FR 16550/25.4 A 40	44731041	4007220469767	2	\$90.58		
165 x 50	FR 16550/25.4 A 60	44731061	4007220469781	2	\$90.58		
165 x 50	FR 16550/25.4 A 80	44731081	4007220469804	2	\$108.14		
165 x 50	FR 16550/25.4 A 120	44731121	4007220469811	2	\$108.14		
165 x 50	FR 16550/25.4 A 240	44731241	4007220469842	2	\$109.48		
165 x 50	FR 16550/25.4 A 320	44731321	4007220469859	2	\$109.48		
200 x 30	FR 20030/44.0 A 60	44736061	4007220469606	2	\$122.62	 	
200 x 30	FR 20030/44.0 A 80	44736081	4007220469613	2	\$125.64		
200 x 30	FR 20030/44.0 A 120	44736121	4007220469637	2	\$137.92		
200 x 50	FR 20050/44.0 A 60	44738061	4007220469262	2	\$164.60		
200 x 50	FR 20050/44.0 A 80	44738081	4007220469286	2	\$197.60		
200 x 50	FR 20050/44.0 A 120	44738121	4007220469309	2	\$197.60		
250 x 50	FR 25050/44.0 A 60	44742061	4007220469064	1	\$190.94		
250 x 50	FR 25050/44.0 A 80	44742081	4007220469088	1	\$202.86		

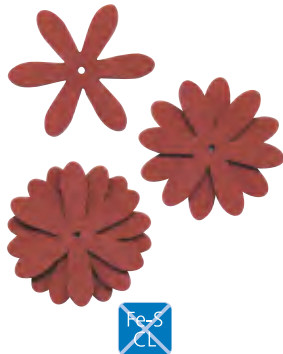
Size mm	Description	Article No.	Barcode		List Price ea. \$	Image	
Fine Grinding & Polishing Tools (continued)							
Flap Wheel Arbors & Flanges							
25 x 12	FR/VR 12/25.4 100-165 °	44601225	4007220479643	1	\$81.18		
44 x 12	FR/VR 12/44.0 200-250 #	44601244	4007220479650	1	\$98.86		
25 x M12	FR/VR M12/25.4 100-165 *	47600057	4007220820742	1	\$133.20		
° = 12mm Shank - Suits 100 - 165mm wheels # = 12mm Shank - Suits 200 - 250mm wheels * = Suits straight grinder with M12 thread							
RF FR 150-165 Bo. 12-22.2		44771225	4007220509876	1	\$36.44		
RF FR 200-250 Bo. 12-40 RF type for fitting to Bench Grinders		44771244	4007220498460	1	\$60.38		
Flap Wheels with Cooling Aid (INOX)							
150 x 30	FR 15030 A 40 INOX	44725040	4007220469576	2	\$61.82		
150 x 30	FR 15030 A 60 INOX	44725060	4007220469590	2	\$61.82		
150 x 30	FR 15030 A 120 INOX	44725120	4007220469668	2	\$68.66		
150 x 50	FR 15050 A 40 INOX	44727040	4007220469743	2	\$78.38		
150 x 50	FR 15050 A 60 INOX	44727060	4007220469774	2	\$78.38		
150 x 50	FR 15050 A 80 INOX	44727080	4007220469798	2	\$90.72		
150 x 50	FR 15050 A 120 INOX	44727120	4007220469828	2	\$90.72		
165 x 30	FR 16530 A 40 INOX	44733041	4007220469989	2	\$71.90		
165 x 30	FR 16530 A 60 INOX	44733061	4007220470008	2	\$71.90		
165 x 30	FR 16530 A 80 INOX	44733081	4007220470015	2	\$78.66		
165 x 30	FR 16530 A 120 INOX	44733121	4007220470022	2	\$78.66		
165 x 50	FR 16550 A 40 INOX	44730041	4007220469866	2	\$90.58		
165 x 50	FR 16550 A 60 INOX	44730061	4007220469873	2	\$90.58		
165 x 50	FR 16550 A 80 INOX	44730081	4007220469903	2	\$108.14		
165 x 50	FR 16550 A 120 INOX	44730121	4007220469910	2	\$108.14		
Flap Wheels for Angle Grinders							
115	FR-WS 11520 M14 A 40	44781504	4007220752364	2	\$36.76		
115	FR-WS 11520 M14 A 60	44781506	4007220752388	2	\$36.76		
115	FR-WS 11520 M14 A 80	44781508	4007220752395	2	\$39.32		
115	FR-WS 11520 M14 A 120	44781512	4007220752401	2	\$39.32		
125	FR-WS 12520 M14 A 40	44782504	4007220752418	2	\$39.32		
125	FR-WS 12520 M14 A 60	44782506	4007220752425	2	\$39.32		
125	FR-WS 12520 M14 A 80	44782508	4007220752432	2	\$40.82		
125	FR-WS 12520 M14 A 120	44782512	4007220752449	2	\$40.82		
Flap Drums							
100 x 100	FR-W 100100 A 40	44783040	4007220770498	1	\$97.92		
100 x 100	FR-W 100100 A 60	44783060	4007220770504	1	\$110.16		
100 x 100	FR-W 100100 A 80	44783080	4007220770511	1	\$114.26		
100 x 100	FR-W 100100 A 120	44783120	4007220770528	1	\$117.26		
100 x 100	FR-W 100100 A 150	44783150	4007220770535	1	\$122.40		
100 x 100	FR-W 100100 A 180	44783180	4007220770542	1	\$126.50		
POLIFLAP® Flap Drums							
	PFL-SL A 60 Flaps	42800110	4007220725276	12	\$4.64		
	PFL-SL A 80 Flaps	42800111	4007220725283	12	\$4.14		
	PFL-SL A 100 Flaps	42800112	4007220725290	12	\$4.14		
	PFL-SL A 120 Flaps	42800113	4007220725306	12	\$3.64		
	PFL-SL A 180 Flaps	42800115	4007220725320	12	\$3.64		
	PFL-SL A 320 Flaps	42800117	4007220725344	12	\$3.64		
	PFL-GL Rubber Flaps	42800120	4007220725412	12	\$7.70		
170 x 60	PFL 17060/12 Drum Hub - 12mm Shank	42800100	4007220725405	1	\$214.16		

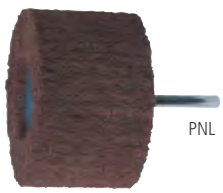
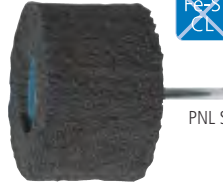
Size mm	Description	Article No.	Barcode		List Price ea. \$	Image	
COMBIDISC® Tools							
COMBIDISC® Holders - CD Type							
Suits PSG®, Power Lock II®, Turn On® & So-Catt® Systems							
20	SBH 20 M (medium)	42721202	4007220265901	1	\$31.14		W - soft
25	SBH 25 M (medium)	42721252	4007220266755	1	\$33.66		
38	SBH 38 M (medium)	42721382	4007220266779	1	\$36.54		
50	SBH 50 H (hard)	42721501	4007220266816	1	\$46.80		M - medium
50	SBH 50 M (medium)	42721502	4007220266809	1	\$36.54		
50	SBH 50 W (soft)	42721503	4007220266793	1	\$41.66		H - hard
75	SBH 75 H (hard)	42721751	4007220266847	1	\$54.08		
75	SBH 75 M (medium)	42721752	4007220266830	1	\$42.56		
75	SBH 75 W (soft)	42721753	4007220266823	1	\$37.40		
COMBIDISC® Abrasive Discs - CD A							
20	CD 20 A 60	42750206	4007220265864	100	\$1.26		
20	CD 20 A 80	42750208	4007220266007	100	\$1.26		
20	CD 20 A 120	42750212	4007220266038	100	\$1.26		
25	CD 25 A 60	42750306	4007220355718	100	\$1.44		
25	CD 25 A 80	42750308	4007220355725	100	\$1.44		
25	CD 25 A 120	42750312	4007220355732	100	\$1.44		
25	CD 25 A 320	42750332	4007220266151	100	\$1.44		
38	CD 38 A 60	42750406	4007220355756	100	\$1.12		
38	CD 38 A 80	42750408	4007220355763	100	\$1.12		
38	CD 38 A 120	42750412	4007220355770	100	\$1.12		
38	CD 38 A 180	42750418	4007220266175	100	\$1.12		
38	CD 38 A 320	42750432	4007220266199	100	\$1.12		
50	CD 50 A 36	42750503	4007220355787	100	\$1.80		
50	CD 50 A 60	42750506	4007220355794	100	\$1.80		
50	CD 50 A 80	42750508	4007220355800	100	\$1.80		
50	CD 50 A 120	42750512	4007220355817	100	\$1.80		
50	CD 50 A 180	42750518	4007220266212	100	\$1.80		
COMBIDISC® Abrasive Discs - CD A Plus							
50	CD 50 A 36 PLUS	42755503	4007220593608	100	\$1.84		
50	CD 50 A 60 PLUS	42755506	4007220593615	100	\$1.62		
50	CD 50 A 80 PLUS	42755508	4007220593622	100	\$1.62		
50	CD 50 A 120 PLUS	42755512	4007220593653	100	\$1.62		
75	CD 75 A 36 PLUS	42755703	4007220593660	50	\$2.42		
75	CD 75 A 60 PLUS	42755706	4007220593677	50	\$2.20		
75	CD 75 A 80 PLUS	42755708	4007220593684	50	\$2.20		
COMBIDISC® Abrasive Discs - CD A Forte							
75	CD 75 A 36 Forte	42751703	4007220266182	50	\$3.14		
75	CD 75 A 60 Forte	42751706	4007220266205	50	\$2.70		
75	CD 75 A 80 Forte	42751708	4007220266229	50	\$2.70		
COMBIDISC® Abrasive Discs - CD Z							
75	CD 75 Z 60	42753706	4007220266533	50	\$3.24		
75	CD 75 Z 80	42753708	4007220266540	50	\$3.24		

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
COMBIDISC® Tools (continued)						
COMBIDISC® Abrasive Discs - CD SiC						
75	CD 75 SiC 36	42754703	4007220441220	50	\$3.10	
75	CD 75 SiC 60	42754706	4007220441237	50	\$2.96	
75	CD 75 SiC 80	42754708	4007220441244	50	\$2.96	
COMBIDISC® Abrasive Discs - CD CO (Ceramic)						
50	CD 50 CO 24	42756502	4007220617922	100	\$2.74	
50	CD 50 CO 36	42756503	4007220617298	100	\$2.74	
50	CD 50 CO 60	42756506	4007220617304	100	\$2.42	
50	CD 50 CO 80	42756508	4007220617311	100	\$2.42	
75	CD 75 CO 24	42756702	4007220617939	50	\$3.78	
75	CD 75 CO 36	42756703	4007220617328	50	\$3.60	
75	CD 75 CO 60	42756706	4007220617335	50	\$3.32	
75	CD 75 CO 80	42756708	4007220617342	50	\$3.14	
75	CD 75 CO 120	42756712	4007220771372	50	\$3.14	
COMBIDISC® Abrasive Discs - CD FR (Felt)						
50	CD FR 50	42770050	4007220440490	10	\$3.87	
75	CD FR 75	42770075	4007220440506	10	\$7.65	
COMBIDISC® Abrasive Discs - CD PCLR (POLICLEAN®)						
50	CD 50 PCLR	42780050	4007220471500	10	\$9.62	
75	CD 75 PCLR	42780075	4007220471517	10	\$13.72	
COMBIDISC® Abrasive Discs - Set						
50	SET 50	42790050	4007220265918	1	\$95.72	
Set Contents:	3 pieces each of: CD75A36, 60 and 120 Forte 3 pieces each of: CD75A60 INOX Forte 3 pieces each of: CD75Z60 3 pieces each of: CD75VRH Medium and VRW Medium 1 piece each of: SBH75M Holder					
COMBIDISC® Abrasive Discs - Mini Polifans						
75	CD PFF 75 Z 40	42719704	4007220592755	10	\$9.80	
75	CD PFF 75 Z 60	42719706	4007220592762	10	\$10.84	
75	CD PFF 75 Z 80	42719708	4007220592779	10	\$11.84	
75	CD PFF 75 Z 120	42719712	4007220592786	10	\$12.86	
	BO PFF 75 ARBOR	42700075	4007220593202	1	\$10.76	
COMBIDISC® Brush						
	CD-B 50 STEEL 0.35*	42709050	4007220780077	1	\$11.06	
COMBIDISC® Mounting Adaptors						
	SBH M14	75602528	932492201084	1	\$27.87	
	SBH M10 x 1.5	75602529	932492201085	1	\$22.73	

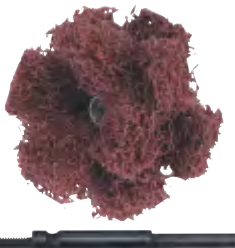
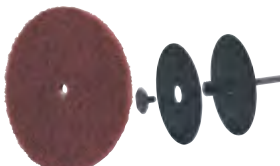
Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
COMBIDISC® Tools (continued)						
COMBIDISC® Holders - CDR Type						
Suits: Roloc®, Lockit®, Speed Lock TR® & Power Lock III® Discs						
38	SBHR 38 M	42721392	4007220597057	1	\$21.96	
50	SBHR 50 M	42721512	4007220597064	1	\$27.44	
75	SBHR 75 M	42721762	4007220597071	1	\$31.90	
50	RM2 (50mm)	47600052	4007220818862	1	\$14.30	
75	RM3 (75mm)	47600053	4007220818879	1	\$16.34	
COMBIDISC® Abrasive Discs - CDR A						
50	CDR 50 A 36	42770503	4007220596517	100	\$1.80	 
50	CDR 50 A 60	42770506	4007220596524	100	\$1.80	
50	CDR 50 A 80	42770508	4007220596531	100	\$1.80	
50	CDR 50 A 120	42770512	4007220596548	100	\$1.80	
50	CDR 50 A 180	42770518	4007220596555	100	\$1.80	
50	CDR 50 A 320	42770532	4007220596562	100	\$1.80	
75	CDR 75 A 36	42770703	4007220596586	50	\$2.52	
75	CDR 75 A 60	42770706	4007220596593	50	\$2.52	
75	CDR 75 A 80	42770708	4007220596609	50	\$2.52	
75	CDR 75 A 120	42770712	4007220596616	50	\$2.52	
75	CDR 75 A 180	42770718	4007220596623	50	\$2.52	
75	CDR 75 A 320	42770732	4007220596630	50	\$2.52	
COMBIDISC® Abrasive Discs - CDR A Forte						
50	CDR 50 A 36 Forte	42771503	4007220596692	100	\$2.24	 
50	CDR 50 A 60 Forte	42771506	4007220596708	100	\$1.98	
50	CDR 50 A 80 Forte	42771508	4007220596715	100	\$1.98	
50	CDR 50 A 120 Forte	42771512	4007220596722	100	\$1.98	
75	CDR 75 A 36 Forte	42771703	4007220596739	50	\$3.14	
75	CDR 75 A 60 Forte	42771706	4007220596746	50	\$2.70	
75	CDR 75 A 80 Forte	42771708	4007220596753	50	\$2.70	
75	CDR 75 A 120 Forte	42771712	4007220596760	50	\$2.70	
COMBIDISC® Abrasive Discs - CDR A-COOL						
50	CDR 50 A-COOL 60	42772506	4007220596784	100	\$2.16	 
75	CDR 75 A-COOL 36	42772703	4007220596807	50	\$3.42	
75	CDR 75 A-COOL 60	42772706	4007220596814	50	\$2.96	
75	CDR 75 A-COOL 80	42772708	4007220596821	50	\$2.96	
COMBIDISC® Abrasive Discs - CDR Z						
50	CDR 50 Z 36	42773503	4007220596838	100	\$2.70	 
50	CDR 50 Z 60	42773506	4007220596845	100	\$2.34	
50	CDR 50 Z 80	42773508	4007220596852	100	\$2.34	
75	CDR 75 Z 36	42773703	4007220596869	50	\$3.60	
75	CDR 75 Z 60	42773706	4007220596876	50	\$3.24	
75	CDR 75 Z 80	42773708	4007220596883	50	\$3.24	
COMBIDISC® Abrasive Discs - CD VRH (Surface Conditioning)						
50	CDR VRH 50 A Coarse	42781501	4007220596937	50	\$2.42	 
50	CDR VRH 50 A Medium	42781502	4007220596944	50	\$2.42	
50	CDR VRH 50 A Very fine	42781504	4007220596951	50	\$2.42	
75	CDR VRH 75 A Coarse	42781751	4007220596968	25	\$3.68	
75	CDR VRH 75 A Medium	42781752	4007220596975	25	\$3.68	
75	CDR VRH 75 A Very fine	42781754	4007220597354	25	\$3.68	
Coarse (Brown) Medium (Maroon) Very Fine (Blue)						

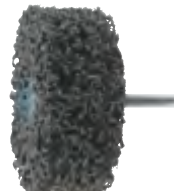
Coarse (Brown) Medium (Maroon) Very Fine (Blue)

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
COMBIDISC® Tools (continued)						
COMBIDISC® Abrasive Discs - CDR Ceramic COOL (Top Size)						
50	CDR 50 CO-COOL 36	42776503	4007220778678	100	\$3.32	 
50	CDR 50 CO-COOL 60	42776506	4007220778685	100	\$2.96	
50	CDR 50 CO-COOL 80	42776508	4007220778692	100	\$2.96	
50	CDR 50 CO-COOL 120	42776512	4007220778708	100	\$2.96	
75	CDR 75 CO-COOL 36	42776703	4007220778722	50	\$4.04	
75	CDR 75 CO-COOL 60	42776706	4007220778739	50	\$3.86	
75	CDR 75 CO-COOL 80	42776708	4007220778746	50	\$3.68	
75	CDR 75 CO-COOL 120	42776712	4007220778753	50	\$3.60	
COMBIDISC® Contour - CDR A						
60	CDR 60 A 60 CONTOUR	N! 42759005	4007220898840	25	\$2.58	 
60	CDR 60 A 80 CONTOUR	N! 42759006	4007220898857	25	\$2.58	
60	CDR 60 A 120 CONTOUR	N! 42759007	4007220898864	25	\$2.58	
60	CDR 60 A 180 CONTOUR	N! 42759008	4007220898871	25	\$2.58	
Recommended for use with SBHR50M backing pad - see page 55						
COMBIDISC® Non-Woven Discs - CDR PNER						
50	CDR PNER H 5006 A COARSE (hard)	42779141	4007220832707	25	\$12.18	 
50	CDR PNER H 5006 A FINE (hard)	42779142	4007220832691	25	\$12.18	
50	CDR PNER MH 5006 A FINE (medium-hard)	42779102	4007220832684	25	\$11.00	
50	CDR PNER H 5006 C FINE (hard)	42779104	4007220832677	25	\$11.00	
50	CDR PNER W 5006 A COARSE (soft)	42779021	4007220832660	25	\$9.36	
50	CDR PNER W 5006 C FINE (soft)	42779024	4007220832653	25	\$9.36	
75	CDR PNER H 7506 A COARSE (hard)	42779151	4007220832769	25	\$17.82	
75	CDR PNER H 7506 A FINE (hard)	42779152	4007220832752	25	\$17.82	
75	CDR PNER MH 7506 A FINE (medium-hard)	42779112	4007220832745	25	\$16.18	
75	CDR PNER MH 7506 C FINE (medium-hard)	42779114	4007220832738	25	\$16.18	
75	CDR PNER W 7506 A COARSE (soft)	42779031	4007220832721	25	\$13.90	
75	CDR PNER W 7506 C FINE (soft)	42779034	4007220832714	25	\$13.90	
POLISTAR® Pads						
20	PST 20/1.6 A 60	42730206	4007220661345	25	\$1.66	 
20	PST 20/1.6 A 80	42730208	4007220661444	25	\$1.66	
20	PST 20/1.6 A 120	42730212	4007220661451	25	\$1.66	
30	PST 30/1.6 A 60	42730306	4007220661468	25	\$1.98	
30	PST 30/1.6 A 80	42730308	4007220661482	25	\$1.98	
30	PST 30/1.6 A 120	42730312	4007220661512	25	\$1.98	
40	PST 40/3 A 60	42730406	4007220661543	10	\$2.38	
40	PST 40/3 A 80	42730408	4007220661550	10	\$2.38	
40	PST 40/3 A 120	42730412	4007220661567	10	\$2.38	
50	PST 50/3 A 60	42730506	4007220661574	10	\$2.78	
50	PST 50/3 A 80	42730508	4007220661581	10	\$2.78	
50	PST 50/3 A 120	42730512	4007220661598	10	\$2.78	
POLISTAR® Arbors						
20/30	BO 2.3/1.6 1-5	42460023	4007220151570	1	\$7.60	
20/30	BO 3/1.6 1-5	42460030	4007220151587	1	\$7.60	
40/50	BO 6/3 1-6	42400003	4007220505694	1	\$24.70	

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Fine Grinding & Polishing Tools (continued)						
POLINOX® Mounted Points - 6mm Shank						
40 x 20	PNL 4020/6 A 100	44654100	4007220157060	10	\$20.34	 PNL
40 x 20	PNL 4020/6 A 180	44654180	4007220157077	10	\$20.34	
40 x 20	PNL 4020/6 A 280	44654280	4007220157084	10	\$20.34	
50 x 30	PNL 5030/6 A 100	44655100	4007220157107	10	\$24.52	 PNL SiC
50 x 30	PNL 5030/6 A 180	44655180	4007220157114	10	\$24.52	
50 x 30	PNL 5030/6 A 280	44655280	4007220157121	10	\$24.52	
60 x 50	PNL 6050/6 A 100	44666100	4007220157213	10	\$25.88	 PNL SiC
60 x 50	PNL 6050/6 A 180	44666180	4007220157220	10	\$25.88	
60 x 50	PNL 6050/6 A 280	44666280	4007220157237	10	\$25.88	
80 x 50	PNL 8050/6 A 100	44658100	4007220157183	10	\$32.58	 PNL SiC
80 x 50	PNL 8050/6 A 180	44658180	4007220157190	10	\$32.58	
80 x 50	PNL 8050/6 A 280	44658280	4007220157206	10	\$32.58	
40 x 20	PNL 4020/6 SiC 180	44640418	4007220293669	10	\$21.82	 PNL SiC
40 x 20	PNL 4020/6 SiC 280	44640428	4007220293676	10	\$21.82	
50 x 30	PNL 5030/6 SiC 180	44640518	4007220293683	10	\$26.18	
60 x 50	PNL 6050/6 SiC 180	44640618	4007220293706	10	\$29.78	 PNL SiC
80 x 50	PNL 8050/6 SiC 180	44640818	4007220293720	10	\$39.82	
60 x 50	PNR 6050/6 A 100	44656100	4007220157145	10	\$29.34	
60 x 50	PNR 6050/6 A 180	44656180	4007220157152	10	\$29.34	 PNR
60 x 50	PNR 6050/6 A 280	44656280	4007220157169	10	\$29.34	
80 x 50	PNR 8050/6 A 100	44668100	4007220157244	10	\$39.14	
80 x 50	PNR 8050/6 A 180	44668180	4007220157251	10	\$39.14	 PNR
80 x 50	PNR 8050/6 A 280	44668280	4007220157268	10	\$39.14	
40 x 20	PNZ 4020/6 A 100	44654080	4007220157053	10	\$26.90	
40 x 20	PNZ 4020/6 A 180	44654088	4007220294697	10	\$26.90	 PNG
60 x 50	PNZ 6050/6 A 100	44656080	4007220157138	10	\$38.48	
60 x 50	PNZ 6050/6 A 180	44656088	4007220294703	10	\$38.48	
80 x 50	PNZ 8050/6 A 100	44658080	4007220157176	10	\$38.88	 PNG
80 x 50	PNZ 8050/6 A 180	44658088	4007220294710	10	\$38.88	
100 x 50	PNZ 10050/6 A 100	44690080	4007220294666	5	\$70.02	
100 x 50	PNZ 10050/6 A 180	44690088	4007220294673	5	\$70.02	PNG SiC
80 x 50	PNZ 8050/6 SiC 100	44640806	4007220617571	10	\$40.90	
80 x 50	PNZ 8050/6 SiC 180	44640808	4007220617588	10	\$41.40	
100 x 50	PNG 10050/6 A 100	44669100	4007220499580	5	\$82.04	PNG SiC
100 x 50	PNG 10050/6 A 180	44669180	4007220499597	5	\$82.04	
100 x 50	PNG 10050/6 A 280	44669280	4007220499603	5	\$82.04	
100 x 50	PNG 10050/6 SiC 100	44640910	4007220617595	1	\$86.08	PNG SiC
100 x 50	PNG 10050/6 SiC 180	44640918	4007220617601	1	\$86.08	
POLINOX® Ring Wheels						
150 x 50	PNL 15050 A 100	44644111	4007220479667	1	\$122.66	 PNL
150 x 50	PNL 15050 A 180	44644119	4007220479674	1	\$134.64	
200 x 50	PNL 20050 A 100 *	44644210	4007220293638	1	\$155.74	
200 x 50	PNL 20050 A 180	44644219	4007220479704	1	\$171.80	 PNR
200 x 50	PNL 20050 A 280	44644229	4007220479711	1	\$183.56	
150 x 40	PNR 15040 A 180	44647518	4007220293577	1	\$53.60	
150 x 50	PNZ 15050 A 100	44645111	4007220479728	1	\$150.20	 PNG
150 x 50	PNG 15050 A 100	44646111	4007220479780	1	\$120.06	
150 x 50	PNG 15050 A 180	44646119	4007220479797	1	\$120.06	
150 x 50	PNG 15050 A 280	44646129	4007220479803	1	\$120.06	 PNL-W
POLINOX® Grinding Drums						
100 x 100	PNL-W 100100 A 100	44641010	4007220593523	1	\$109.26	PNL-W
100 x 100	PNL-W 100100 A 180	44641018	4007220593530	1	\$117.08	
100 x 100	PNL-W 100100 A 280	44641028	4007220593547	1	\$124.88	
100 x 100	PNZ-W 100100 A 60 (Coarse)	44641106	4007220593554	1	\$109.26	PNL-W
100 x 100	PNZ-W 100100 A 80 (Medium)	44641108	4007220593561	1	\$117.08	
100 x 100	PNZ-W 100100 A 120 (Fine)	44641112	4007220593578	1	\$124.88	

* Discontinued - Available Only While Stocks Last

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image	
Fine Grinding & Polishing Tools (continued)							
POLINOX® Ring Wheels - PNER							
25 x 25	PNER-MH 2525-6 A FINE (medium hard)	44691202	4007220440452	10	\$12.51	 	
50 x 3	PNER-H 5003-6 A FINE (hard)	44691005	4007220505700	10	\$11.88		
75 x 6	PNER-MW 7506-6 C FINE (medium soft)	44691427	4007220355558	5	\$18.27		
75 x 6	PNER-W 7506-6 C FINE (soft)	44691627	4007220355626	5	\$19.80		
125 x 6	PNER-MH 12506-22.2 A FINE (medium hard)	44691252	4007220833155	1	\$55.80		
150 x 25	PNER-MW 15025-25.4 C FINE (medium soft)	44691467	4007220355602	1	\$147.50		
150 x 25	PNER-H 15025-25.4 A COARSE (hard)	44691061	4007220355497	1	\$149.30		
POLINOX® PNER - Unitized Discs							
115 x 22	PNER-MH 115-22.2 C FINE (medium hard)	44690712	4007220 824351	1	\$69.30		
115 x 22	PNER-MW 115-22.2 C FINE (medium soft)	44690722	4007220824344	1	\$66.10		
115 x 22	PNER-W 115-22.2 C FINE (soft)	44690732	4007220824337	1	\$59.04		
125 x 22	PNER-MH 125-22.2 C FINE (medium hard)	44690713	4007220824382	1	\$87.03		
125 x 22	PNER-MW 125-22.2 C FINE (medium soft)	44690723	4007220824375	1	\$82.62		
125 x 22	PNER-W 125-22.2 C FINE (soft)	44690733	4007220824368	1	\$73.62		
Arbors & Flanges							
25 x 12	FR/VR 12/25.4 100-165 °	44601225	4007220479643	1	\$81.18		
44 x 12	FR/VR 12/44.0 200-250 #	44601244	4007220479650	1	\$98.86		
25 x M12	FR/VR M12/25.4 100-165 *	47600057	4007220820742	1	\$133.20		
	° = 12mm Shank - Suits 100 - 165mm wheels # = 12mm Shank - Suits 200 - 250mm wheels * = Suits straight grinder with M12 thread						
	RF FR 150-165 BO 12-22.2	44771225	4007220509876	1	\$36.44		
	RF FR 200-250 BO 12-40 RF type for fitting to Bench Grinders	44771244	4007220498460	1	\$60.38		
POLINOX® Cross Buffs							
25	PNST 25-2 Medium Fine	44698252	4007220441138	20	\$6.08		
25	PNST 25-2 Very Fine	44698253	4007220441145	20	\$11.16		
38	PNST 38-3 Medium Fine	44698382	4007220441152	20	\$22.54		
38	PNST 38-3 Very Fine	44698383	4007220441169	20	\$23.62		
	BO-PNST 6-75 Arbor	42700675	4007220440988	1	\$18.26		
	BO-PNST 6-125 Arbor	42700685	4007220440995	1	\$20.74		
POLIVLIES® Discs							
150 x 8	PVR 15008-13 A Medium	44693151	4007220505847	10	\$29.30		
150 x 8	PVR 15008-13 A Very Fine	44693152	4007220505861	10	\$15.84		
	PRV 6/13 1-25 Arbor	23600506	4007220505878	1	\$46.16		
POLIVLIES® Velstick Surface Conditioning Discs							
100	PVKR 100 A Coarse	47200038	4007220818794	20	\$5.84	 Coarse (Brown) Medium (Maroon) Fine (Blue)	
100	PVKR 100 A Medium	47200046	4007220820773	20	\$5.84		
100	PVKR 100 A Fine	47200035	4007220818442	20	\$5.84		
115	PVKR 115 A Coarse	42871306	4007220354230	20	\$6.92		
115	PVKR 115 A Medium	42871310	4007220297469	20	\$6.92		
115	PVKR 115 A Fine	42871318	4007220354254	20	\$6.92		
125	PVKR 125 A Coarse	42871406	4007220354261	20	\$8.72		
125	PVKR 125 A Medium	42871410	4007220297452	20	\$8.72		
125	PVKR 125 A Fine	42871418	4007220354278	20	\$8.72		
178	PVKR 178 A Coarse	42871606	4007220354285	10	\$13.94		
178	PVKR 178 A Medium	42871610	4007220354292	10	\$13.94		
178	PVKR 178 A Fine	42871618	4007220354308	10	\$13.94		
POLIVLIES® Velstick Backing Pads							
100	PVKRH 100 M10 x 1.5	47202107	4007220840573	1	\$21.74		
115	PVKRH 115 M14	42711154	4007220316962	1	\$23.94		
125	PVKRH 125 M14	42711254	4007220316979	1	\$26.72		
178	PVKRH 178 M14	42711784	4007220354223	1	\$40.64		

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Fine Grinding & Polishing Tools (continued)						
POLIVLIES® Surface Conditioning Flap Discs						
115	PVL 115 A Coarse - brown	44694101	4007220748336	5	\$16.16	
115	PVL 115 A Medium - Maroon	44694102	4007220748343	5	\$16.16	
115	PVL 115 A Fine - blue	44694103	4007220748350	5	\$16.16	
125	PVL 125 A Coarse - brown	44694111	4007220748367	5	\$17.28	
125	PVL 125 A Medium - Maroon	44694112	4007220748374	5	\$17.28	
125	PVL 125 A Fine - blue	44694113	4007220748381	5	\$17.28	
POLIVLIES® Hand Pads						
150 x 230	PVHP 150 - Green - General Purpose	47200036	4007220818480	10	\$2.38	
150 x 230	PVHP 150 - Maroon - Medium	47200037	4007220818497	10	\$2.42	
150 x 230	PVHP 150 - Tan - Coarse	47200032	4007220818374	10	\$6.70	
150 x 230	PVHP 150 - Grey - Fine	47200033	4007220818381	10	\$2.52	
150 x 230	PVHP 150 - Black - Coarse/Medium	47200034	4007220818398	10	\$4.28	
POLIVLIES® Rolls						
115 x 10M	PVLR 115 x 10M Coarse (Maroon)	47200039	4007220818886	1	\$80.14	
115 x 10M	PVLR 115 x 10M Coarse/Medium (Black)	47200040	4007220818893	1	\$80.14	
115 x 10M	PVLR 115 x 10M Medium (Maroon)	47200041	4007220818909	1	\$70.34	
115 x 10M	PVLR 115 x 10M Medium/Fine (Green)	47200042	4007220818916	1	\$70.34	
115 x 10M	PVLR 115 x 10M Fine (Grey)	47200043	4007220818923	1	\$70.34	
POLIVLIES® Marbling Tools						
50	MKRK 50 A 180	44638180	4007220157008	100	\$1.58	
60	MKRK 60 A 100	44639100	4007220157022	100	\$2.38	
60	MKRK 60 A 180	44639180	4007220157039	100	\$1.98	
60	MKRK 60 A 280	44639280	4007220157046	100	\$1.98	
40	MK 6/40/6 HOLDER	44604060	4007220156933	1	\$47.52	
50	MK 6/50/6 HOLDER	44605060	4007220156940	1	\$52.56	
60	MK 6/60/6 HOLDER	44606060	4007220156957	1	\$57.60	
POLICLEAN® Cleaning & Stripping Tools - Centre Hole						
150	PCLS 10013/13	44692100	4007220471487	4	\$18.94	
150	PCLS 15013/13	44692150	4007220471494	4	\$25.02	
178	PCLS 17813/6	47801723	4007220497517	5	\$30.02	
178	PCLS 17813/20	47801752	4007220508657	5	\$30.02	
POLICLEAN® Cleaning & Stripping Tools - Shank Mounted						
50	PCLZY 5013/6	44692251	4007220661321	5	\$22.90	
50	PCLZY 5026/6	44692252	4007220661369	5	\$31.64	
75	PCLZY 7513/6	44692271	4007220661376	5	\$24.92	
75	PCLZY 7526/6	44692272	4007220661383	5	\$33.98	
100	PCLZY 10013/6	44692291	4007220661406	5	\$32.98	
POLICLEAN® Cleaning & Stripping Tools - Depressed Centre						
115	PCLD 115-13	44692715	4007220515280	5	\$28.80	
125	PCLD 125-13	44692725	4007220515297	5	\$31.54	
POLIFLEX® Blocks						
	PFB 1156030 CU 60 PUR	41020060	4007220298671	5	\$30.50	
	PFB 1156030 CU 120 PUR	41020120	4007220298688	5	\$30.50	
	PFB 1156030 CU 240 PUR	41020240	4007220298695	5	\$30.50	

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image	
Fine Grinding & Polishing Tools (continued)							
POLIFLEX® Mounted Points							
GR - Rubber Type - 3mm & 6mm Shank (continued)							
6 x 10	PF ZY 0610/3 AR 120 GR	41200512	4007220144824	10	\$8.14	 ZY 	
8 x 8	PF ZY 0808/3 AR 120 GR	41201112	4007220144848	10	\$8.60		
8 x 12	PF ZY 0812/3 AR 120 GR	41204112	4007220144886	10	\$8.60		
10 x 10	PF ZY 1010/3 AR 120 GR	41207112	4007220144947	10	\$8.60		
10 x 15	PF ZY 1015/3 AR 120 GR	41213112	4007220145036	10	\$8.60		
10 x 15	PF ZY 1015/3 AR 220 GR	41213120	4007220145043	10	\$8.60		
12 x 8	PF ZY 1208/3 AR 120 GR	41264112	4007220145883	10	\$8.60		
12 x 20	PF ZY 1220/3 AR 120 GR	41228112	4007220145265	10	\$8.60		
10 x 25	PF ZY 1025/6 AR 120 GR	41219112	4007220145128	10	\$8.78		
15 x 25	PF ZY 1525/6 AR 120 GR	41237112	4007220145418	10	\$8.72		
20 x 30	PF ZY 2030/6 AR 120 GR	41246112	4007220145630	10	\$10.66	 KU 	
8	PF KU 08/3 AR 120 GR	41401112	4007220146217	10	\$10.04		
10	PF KU 10/3 AR 120 GR	41407112	4007220146231	10	\$10.04		
12	PF KU 12/6 AR 120 GR	41425112	4007220146255	10	\$10.04		
20	PF KU 20/6 AR 120 GR	41443112	4007220146293	10	\$11.24		
25	PF KU 25/6 AR 120 GR	41449112	4007220146316	10	\$11.56		
POLIFLEX® Mounted Points - LR - Leather Type							
4 x 8	PF ZY 0408/3 AW 120 LR	41200212	4007220144817	10	\$8.10	 ZY 	
6x 10	PF ZY 0610/3 AW 120 LR	41200612	4007220144831	10	\$8.50		
8 x 12	PF ZY 0812/3 AW 120 LR	41204212	4007220144909	10	\$8.28		
10 x 15	PF ZY 1015/3 AW 120 LR	41213212	4007220145050	10	\$9.72		
40 x 25	PF ZY 4025/8 AW 120 LR *	41282212	4007220146101	10	\$23.66		
8	PF KU 08/3 AW 120 LR	41401212	4007220146224	10	\$10.04		
POLIFLEX® Mounted Points - PUR - Polyurethane Type							
20 x 30	PF ZY 2030/6 CN150 PUR-MH	41293215	4007220535240	10	\$19.44	 ZY  ZY  WR	
100 x 30	PF ZY 10030/8 CN 16 PUR *	41296101	4007220642658	1	\$214.16		
25 x 30	PF ZY 2530/6 CU16 PU-STRUC	41293650	4007220752036	10	\$19.62		
32 x 32	PF ZY 3232/6 CU16 PU-STRUC	41293750	4007220752043	5	\$23.58		
75 x 30	PF ZY 7530/6 CU16 PU-STRUC	41293850	4007220752067	1	\$126.50		
100 x 30	PF ZY 10030/8 CU16 PU-STRUC	41293900	4007220752074	1	\$142.79		
30 x 45	PF WR 3045/8 CU16 PU-STRUC	41393700	4007220752081	5	\$26.54		
40 x 45	PF WR 4045/8 CU16 PU-STRUC	41393750	4007220752104	5	\$30.60		
50 x 45	PF WR 5045/8 CU16 PU-STRUC	41393800	4007220752111	5	\$38.56		
Polishing Tools							
Felt Points & Wheels - 3mm & 6mm Shank							
6 x 10	FK ZYA 0610/3	44140610	4007220295243	10	\$8.00	 ZYA 	
8 x 10	FK ZYA 0810/3	44140810	4007220295250	10	\$8.18		
10 x 14	FK ZYA 1014/3	44111013	4007220153871	10	\$9.04		
10 x 14	FK ZYA 1014/6	44101671	4007220153772	10	\$9.62		
20 x 25	FK ZYA 2025/6 ST-BO	44101701	4007220153802	10	\$18.00		
20 x 25	FK ZYA 2530/6 ST-BO	44112536	4007220153888	10	\$22.18		
15 x 20	FK ZYA 1520 MS/6 ST-BO	44161520	4007220295311	10	\$18.80	 SPK  KEL	
10 x 18	FK SPK 1018/3	44171013	4007220153925	10	\$9.41		
10 x 18	FK SPK 1018/6	44101691	4007220153796	10	\$10.13		
12 x 18	FK SPK 1218/3	44141218	4007220295274	10	\$10.58		
15 x 20	FK SPK 1520/6	44171526	4007220153932	10	\$12.10		
15 x 30	FK SPK 1530/6	44171536	4007220153949	10	\$13.72		
20 x 25	FK SPK 2025/6	44152025	4007220294734	10	\$15.98		
15 x 20	FK KEL 1520/6	44151521	4007220294741	10	\$12.60		

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Fine Grinding & Polishing Tools (continued)						
Felt Points & Wheels - 3mm & 6mm Shank (continued)						
20 x 25	FK KEL 2025/6	44182026	4007220153956	10	\$15.48	 KEL   WRC  TRE  SC
25 x 30	FK KEL 2530/6	44101711	4007220153819	10	\$19.22	
30 x 35	FK KEL 3035/6	44101721	4007220153826	10	\$28.08	
8 x 12	FK WRC 0812/3	44140813	4007220295281	10	\$8.60	
10 x 14	FK WRC 1014/3	44141014	4007220295298	10	\$13.50	
15 x 20	FK WRC 1520/6	44131526	4007220153895	10	\$12.10	
20 x 25	FK WRC 2025/6	44132026	4007220153901	10	\$15.48	
25 x 30	FK WRC 2530/6	44132536	4007220153918	10	\$19.52	
10 x 14	FK TRE 1014/6	44101681	4007220153789	10	\$9.80	
30 x 7	FK SC 3007/6	44101742	4007220153864	5	\$14.22	
45 x 9	FK SC 4509/6	44101732	4007220153840	5	\$17.10	
80 x 10	FK SC 8010/10	44367010	4007220154069	5	\$17.50	
125 x 20	FK SC 12520/20 MS	44331252	4007220295366	1	\$40.32	
Grinding Compounds						
	SFP 150 (250 gr)	44220150	4007220153970	1	\$53.86	
	SFP 280 (250 gr)	44220280	4007220153987	1	\$53.86	
	SFP 360 (250 gr)	44220360	4007220153994	1	\$57.56	
	SFP 800 (250 gr)	44220800	4007220154007	1	\$74.16	
Diamond Polishing Paste						
	DPP 30-5 (5 gr)	44240030	4007220294543	1	\$397.70	
Economy Rolls - General Purpose						
25 x 50M	ER 25 A 40	47300037	4007220818503	1	\$21.60	 
25 x 50M	ER 25 A 60	47300038	4007220818510	1	\$21.60	
25 x 50M	ER 25 A 80	47300039	4007220818527	1	\$21.60	
25 x 50M	ER 25 A 100	47300031	4007220818404	1	\$21.60	
25 x 50M	ER 25 A 120	47300032	4007220818428	1	\$21.60	
25 x 50M	ER 25 A 150	47300033	4007220818435	1	\$21.60	
25 x 50M	ER 25 A 180	47300034	4007220818459	1	\$21.60	
25 x 50M	ER 25 A 240	47300035	4007220818466	1	\$21.60	
25 x 50M	ER 25 A 320	47300036	4007220818473	1	\$21.60	
40 x 50M	ER 40 A 40	47300040	4007220818534	1	\$28.80	
40 x 50M	ER 40 A 60	47300041	4007220818541	1	\$28.80	
40 x 50M	ER 40 A 80	47300042	4007220818558	1	\$28.80	
41 x 50M	ER 40 A 100	47300043	4007220818572	1	\$28.80	
40 x 50M	ER 40 A 120	47300044	4007220818589	1	\$28.80	
40 x 50M	ER 40 A 150	47300045	4007220818596	1	\$28.80	
40 x 50M	ER 40 A 180	47300046	4007220818602	1	\$28.80	
40 x 50M	ER 40 A 240	47300047	4007220818619	1	\$28.80	
40 x 50M	ER 40 A 320	47300048	4007220818640	1	\$28.80	
50 x 50M	ER 50 A 40	47300049	4007220818657	1	\$33.30	
50 x 50M	ER 50 A 60	47300050	4007220818664	1	\$33.30	
50 x 50M	ER 50 A 80	47300051	4007220818671	1	\$33.30	
50 x 50M	ER 50 A 100	47300052	4007220818688	1	\$33.30	
50 x 50M	ER 50 A 120	47300053	4007220818695	1	\$33.30	
50 x 50M	ER 50 A 150	47300054	4007220818701	1	\$33.30	
50 x 50M	ER 50 A 180	47300055	4007220818718	1	\$33.30	
50 x 50M	ER 50 A 240	47300056	4007220818725	1	\$33.30	
50 x 50M	ER 50 A 320	47300057	4007220818732	1	\$33.30	






Diamond and CBN product range

PFERD offers a high-quality, efficient and immediately available range of systems for surface finishing work – coarse to mirror polishing, right up to material cutting.

In addition to this wide range of standard grinding tools, PFERD also specialises in the customer-specific manufacture of electro-plated-, resinoid-, ceramic and metal-bonded diamond and CBN tools.

These tools cut extremely well and have both a longer tool life as well as a better dimensional stability than standard grinding tools.

Superhard abrasives

The term “superhard abrasives” refers to

1. **Diamond**
2. **CBN Cubic Boron Nitride**
(cubic crystal boron nitride)

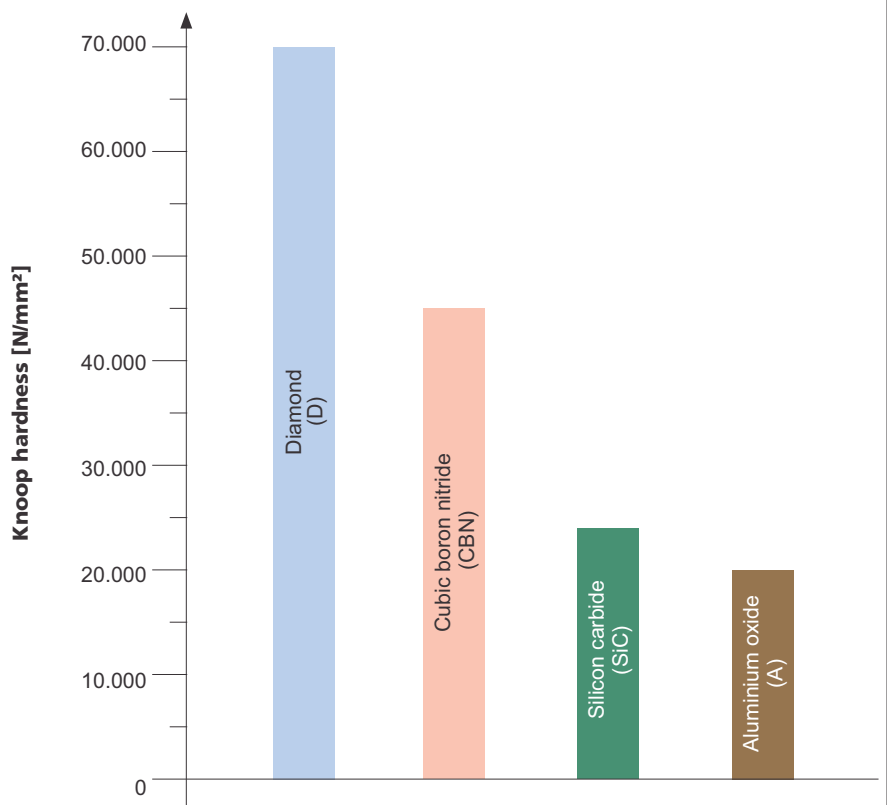
These abrasives are termed “superhard” because they are significantly harder than conventional abrasives, e.g., aluminium oxide and silicon carbide (see graph).

Diamond occurs in nature but, like CBN, can also be produced synthetically.

At extremely high pressures and temperatures, pure carbon (C) synthesizes to diamond, whereas the chemical elements boron (B) and nitrogen (N) synthesize to cubic crystalline boron nitride. Different cutting properties can be imparted to these abrasives by varying the process parameters during synthesis.

As the graph shows, CBN is nearly as hard as diamond.

Comparison: hardness of abrasives



Processes

- Precision grinding
- Precision cutting
- Deep grinding
- Round grinding
- Profile grinding
- Coordinate grinding
- Inner grinding
- Deburring

The use of diamond and CBN according to application

	Industries	Tool and mould making	Machine/ plant construction	Aerospace industry	Ceramic industry	Foundries	Automotive industry	Tool industry
Materials								
Synthetic carbons, graphite,	-	D	-	-	-	-	-	-
GRP/CRP, epoxy resins	D	D	D	-	-	-	D	-
Cast-, grey cast-, nodular iron	-	-	-	-	-	D/B	-	-
Carbides green and sintered	D	-	-	-	-	-	-	D
Ceramic, oxide ceramic, cermets, silicon carbide	-	D	-	-	D	-	D	D
Magnetic materials, ferrite (soft and hard ferrite)	-	D	-	-	-	-	D	-
Friction pads, brake pads	-	-	-	-	-	-	D	-
Tungsten carbide, nickel-based alloys	D	D	D	D	-	-	-	-
Tungsten electrodes	-	D	-	-	-	-	-	-
Chrome steel, ball bearing steel	-	B	-	-	-	-	B	-
Case-hardened steel	B	B	-	-	-	-	B	-
High-performance high-speed steel (HSS), tool steel	B	-	-	-	-	-	-	B
D = Diamond	B = CBN							

Advantages of grinding tools with diamond and CBN

- Superb tool life and dimensional stability.
- Short processing times.
- Reduction of less unproductive work time as the tool does not need to be dressed or changed so often.
- Avoids thermal damage to the workpiece as low resulting grinding temperatures.
- Consistent quality for various types of workpieces.



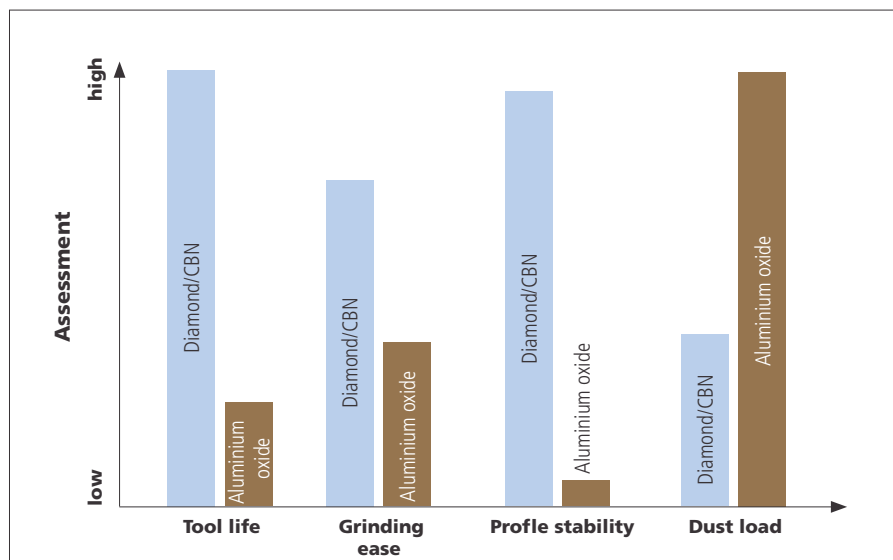
Economical comparison of diamond and CBN against aluminium oxide

Diamond and CBN tools are characterised by

- longer tool life,
- improved abrasive qualities and
- longer-lasting profile-holding properties in comparison to similar tools that use normal or zirconia alumina.

The dust exposure is substantially reduced. This makes the product user-friendly.

The information in the adjacent diagram is valid when the optimal conditions and the required parameters are maintained.



Diamond abrasives

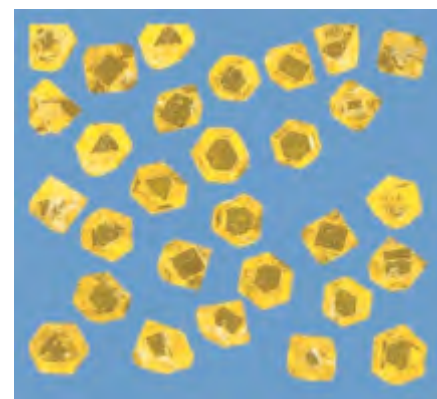
Main uses for diamond

Diamond and CBN abrasives do not compete, but complement each other.

Diamond is not suitable for machining steel, because a chemical reaction between the iron (Fe) in the steel and the carbon (C) in the diamond would cause exceedingly fast tool wear. Using diamond abrasives on steel will therefore not be cost-effective.

Diamond tools are suitable for working on

- Carbides (sintered)
- Carbides (green compacts)
- Glass
- Ceramics (including engineering ceramics)
- Porcelain
- Wear-resistant coatings
- Ferrite
- Silicon
- Graphite, synthetic carbon
- Thermoset plastics
- Glass-fibre reinforced plastics
- Natural and synthetic stone
- Refractory materials



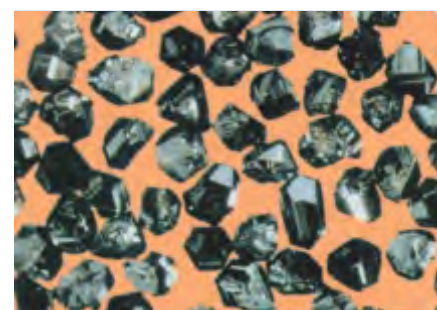
CBN abrasives

Main uses for CBN

CBN is only slightly less harder than diamond but does not react to the iron (Fe) contained in steel.

CBN tools are suitable for working on

- High-speed steels
- Tool steels
- Case-hardened steels
- Ball-bearing steels
- Chromium steels
- Hardened steel materials with a hardness grade of over 54 HRC



Suitable drives for diamond and CBN tools

One prerequisite for the economical use of diamond and CBN tools is the selection of the appropriate tool drive. Not only the machines power but also the optimum RPM is extremely important. Please refer to the tables on pages 7 and 8 for guidelines on cutting speeds and RPM.

The following drives are suitable:

- Stationary machines,
- air grinders,
- air fling machines and
- electric angle grinders.

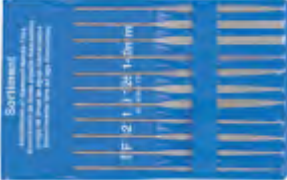


PRODUCT DESCRIPTION	PAGE
Diamond Tools	65
Diamond Handy Files	65

PRODUCT DESCRIPTION	PAGE
Diamond Handy Files - Sets	65
Diamond Needle Files	65

PRODUCT DESCRIPTION	PAGE
Diamond Needle Files - Sets	66
Diamond Grinding Points	66

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Diamond Tools						
Diamond Handy Files						
215	DF 2601 D 126 (hand)	15430202	4007220017302	1	\$77.00	
215	DF 2602 D 126 (1/2 round)	15431202	4007220017319	1	\$77.00	
215	DF 2607 D 126 (3 square)	15432202	4007220017326	1	\$77.00	
215	DF 2607 D 181 (3 square)	15432203	4007220535479	1	\$77.00	
215	DF 2608 D 126 (square)	15433202	4007220017333	1	\$67.96	
215	DF 2610 D 126 (round)	15434202	4007220017340	1	\$67.96	
Diamond Handy File - Set						
215	DF 2627 D 126	15826272	4007220017357	1	\$366.30	
	Contents: DF 2601 (hand) DF 2602 (1/2 round) DF 2607 (3 square) DF 2608 (square) DF 2610 (round)					
Diamond Needle Files						
140	DF 4112 D 91 (hand)	15101061	4007220016664	1	\$28.62	
140	DF 4112 D 126 (hand)	15101062	4007220016671	1	\$25.50	
140	DF 4112 D 181 (hand)	15101063	4007220016688	1	\$32.04	
140	DF 4112R D 126 (hand round edges)	15102062	4007220016701	1	\$25.50	
140	DF 4122 D 91 (flat)	15103061	4007220016725	1	\$28.62	
140	DF 4122 D 126 (flat)	15103062	4007220016732	1	\$25.50	
140	DF 4122 D 181 (flat)	15103063	4007220016749	1	\$32.04	
140	DF 4132 D 126 (3 square)	15104062	4007220016763	1	\$25.50	
140	DF 4142 D 126 (square)	15105062	4007220016794	1	\$25.50	
140	DF 4152 D 91 (1/2 round)	15106061	4007220016817	1	\$28.62	
140	DF 4152 D 126 (1/2 round)	15106062	4007220016824	1	\$25.50	
140	DF 4162 D 91 (round)	15107061	4007220016848	1	\$28.62	
140	DF 4162 D 126 (round)	15107062	4007220016855	1	\$25.50	
140	DF 4162 D 181 (round)	15107063	4007220016862	1	\$32.04	
140	DF 4172 D 126 (knife)	15108062	4007220016886	1	\$25.50	
140	DF 4182 D 126 (feather edge)	15109062	4007220016916	1	\$25.50	
140	DF 4102T D 126 (barrette)	15100062	4007220016640	1	\$25.50	

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Diamond Tools						
Diamond Needle Files - Sets						
140	DF 4205 D 91	15842051	4007220017371	1	\$142.38	
140	DF 4205 D 126	15842052	4007220017388	1	\$126.90	
	Contents DF 4205: 1 piece each of DF 4112 (hand) DF 4132 (three square) DF 4142 (square) DF 4152 (half round) DF 4162 (round)					
140	DF 4211 D 91	15842111	4007220017401	1	\$313.20	
140	DF 4211 D 126	15842112	4007220017418	1	\$279.18	
	Contents DF 4211: 1 piece each of DF 4112 (hand) DF 4112R (hand with round edges) DF 4122 (flat) DF 4132 (three square) DF 4142 (square) DF 4152 (half round) DF 4162 (round) DF 4172 (knife) DF 4182 (feather edge) DF 4192 (crossing oval)					
Diamond Grinding Points - 3mm Shank						
2 x 4	DZY-A 2.0-4/3 D126	36002010	4007220119181	5	\$40.40	
3 x 4	DZY-A 3.0-4/3 D126	36003010	4007220119204	5	\$44.50	
1	DKU-A 1.0/3 D126	36201010	4007220258637	5	\$42.10	
3	DKU-A 3.0/3 D126	36203010	4007220258699	5	\$37.00	



General Information

Maximum operating speed

The maximum operating speed [m/s] is shown on the product labels and product packs by a colour bar in accordance with the specifications of EN 12413. The maximum permissible RPM specification applies to the nominal diameter of the tools.

Maximum operating speed	Colour bars
50 m/s	blue
63 m/s	yellow
80 m/s	red
100 m/s	green

Health

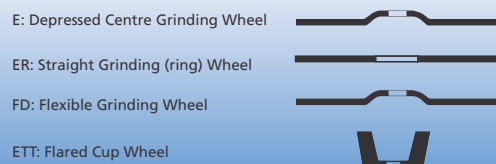
Grinding and cut-off wheels from PFERD help to reduce the hazardous vibrations and noise during the work process. The requirements of EN ISO 6103 are satisfied.

We will be happy to send you more information about the topic of health and safety on request.

Dimensions

The diameter, thickness and centre hole dimension are indicated in the drawings and tables by means of the following symbols: Please refer to PFERD catalogue 21 for more information regarding forms and dimensions.

Grinding Wheels



Cutting Wheels



Polifan® Flap Wheels



= Wear eye protection!



= Wear gloves!



= Wear respirator!



= Use hearing protection!



= Read the instructions!



= Observe the minimum blade angle on reinforced ring wheels!



= Not permitted for face grinding!



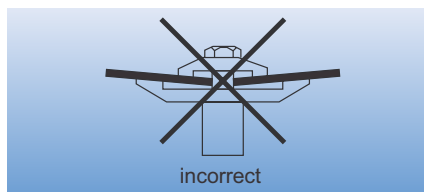
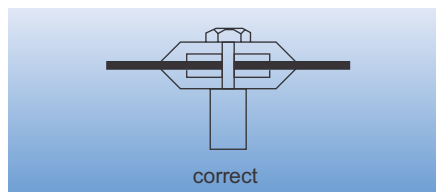
= Do not use if damaged!



= Only permitted with a backing pad!

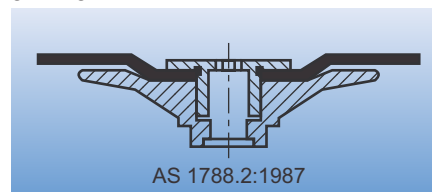
Mounting system

The mounting system is a decisive factor for the safe use of the PFERD-tools. Two flanges clamping a grinding tool must always have the same outside diameter and support area (according to EN 60745-2-3:2007, AS 1788.1:1987, ANSI B7.1:2000).



Adapter for reinforced grinding wheels

In Australia, specific requirements apply with regard to the use of special flange or adapter systems on 178/230 mm dia. reinforced grinding wheels.



PFERD is an oSa founding member

Together with other manufacturers, PFERD has undertaken voluntarily to produce quality tools conforming to the most exacting safety standards.

oSa member companies manufacture to the most stringent specifications worldwide and are committed to continuous product safety and quality monitoring. PFERD-tools carry the oSa mark.



Safety standards

Grinding and cut-off wheels made by PFERD conform to the most exacting quality and safety requirements and are marked according to the following key European and international safety standards:

- EN 12413:2007 for bonded abrasive products
- EN 13236:2000 for superabrasives
- EN 13743:2001 for coated abrasives
- ANSI Safety Code B7.1 / OSHA regulations (USA)
- AS 1788.2:1987 (Australian Standards)

Grinding safety

Abrasive manufacturers, machine producers and users all contribute to grinding safety.

PFERD tools are built to meet all safety requirements. The user, however, has the final responsibility for correct handling and safe operation of power tools and abrasive products.

Do you have any questions on grinding safety? PFERD will be glad to provide advice and support, whether through seminars at our training centres or via our local field service.

Grinding, Polifan® and Cut-Off Wheels

General Information



Grinding & Polifan® Wheels

Product lines

For the wide variety of abrasive grinding applications in industry and crafts PFERD now offers three types of reinforced grinding wheels with their proven colour coding system:



Universal line PS-FORTE

General use in industry and trades

The PFERD range of reinforced grinding wheels meets state-of-the-art requirements, providing outstanding stock removal, handling convenience, and high cost-efficiency.

Reinforced grinding wheels made by PFERD are manufactured to the most stringent quality standards. Operator health risks are reduced through minimised vibration levels and high dimensional stability.



Performance line SG-ELASTIC

Widest range of tools for professional use in industry and trades

POLIFAN® flap discs can offer advantages over reinforced grinding wheels where a superior surface finish must be achieved in addition to high stock removal rates.



Special line SG-PLUS

For special industrial applications

The wide range of high-grade abrasive flap types and proven special-purpose versions available from PFERD meet the demands of the most exacting and difficult grinding tasks while reflecting the specific properties of each material.

The new high-performance flap disc **POLIFAN®-STRONG** with its exceptional abrasive qualities and tool life and the flap disc **POLIFAN®-CURVE** for fillet weld grinding are the latest PFERD innovations.

Cut-Off Wheels

Product lines

PFERD cut-off wheels provide optimum abrasive results. Choose from three product lines with different performance characteristics to match the specific material, power tool type and machining task.



Universal line PS-FORTE

General use in industry and trades

The highly differentiated product lines can be used for all practical machining tasks. You can always choose the optimal cut-off wheel for the respective application.



Performance line SG-ELASTIC

Widest range of tools for professional use in industry and trades



Special line SG-PLUS

For special industrial applications

PFERD order no.

E 178-7 A 30 N SG-INOX
1 2 3 4 5 6 7 8

1. Designation and shape of the tool

E = Depressed Centre Grinding Wheel
ER = Straight Grinding (ring) Wheel
FD = Flexible Grinding Wheel
ETT = Flared Cup Wheel

2. Outer diameter

Outer dia. D in [mm]

3. Wheel width

Width T/U in [mm]

4. Abrasive

A = Aluminium oxide
AC = Aluminium oxide/silicon carbide
C = Silicon carbide
CO = Ceramic grit
ZA = Zirconia alumina/aluminium oxide

5. Grit size

Grit size according to ISO 8486

6. Hardness grade (wheel characteristics)

Hardness grade	Wheel characteristics	Material groups
Universal line PS-FORTE (PSF)		
K	very soft	Steel
L	soft	Steel/stainless steel (INOX)
M	soft	Stainless steel (INOX)
P	medium-hard	Steel/cast iron
Performance line SG-ELASTIC (SG)		
H	very soft	Steel/stainless steel (INOX)
N	soft	Stainless steel (INOX)/ALU
O	medium-hard	Aluminium
Q	medium-hard	Stone/cast iron
R	hard	Steel
S	hard	Scale, cast iron
Special line SG-PLUS (SGP)		
R	hard	Steel
T	very hard	Scale, cast iron

7. PFERD product lines

Universal line PS-FORTE (general)
Performance line SG-ELASTIC (premium)
Special line SG-PLUS (premium)

8. Material group

See also point 6

Designation according to EN 12413

27 A 30 N BF 80
1 2 3 4 5 6

1. Designation and shape of the tool

1 = Grinding wheel, flat type
6 = Cylindrical cup wheels
11 = Cup wheel, tapered type
27 = Grinding wheel, depressed centre type
29 = Semi-flexible grinding wheel, depressed centre type

2. Abrasive

A = Aluminium oxide
AC = Aluminium oxide/silicon carbide
C = Silicon carbide
CO = Ceramic grit
Z = Zirconia alumina
ZA = Zirconia alumina/aluminium oxide

3. Grit size

Grit size according to ISO 8486

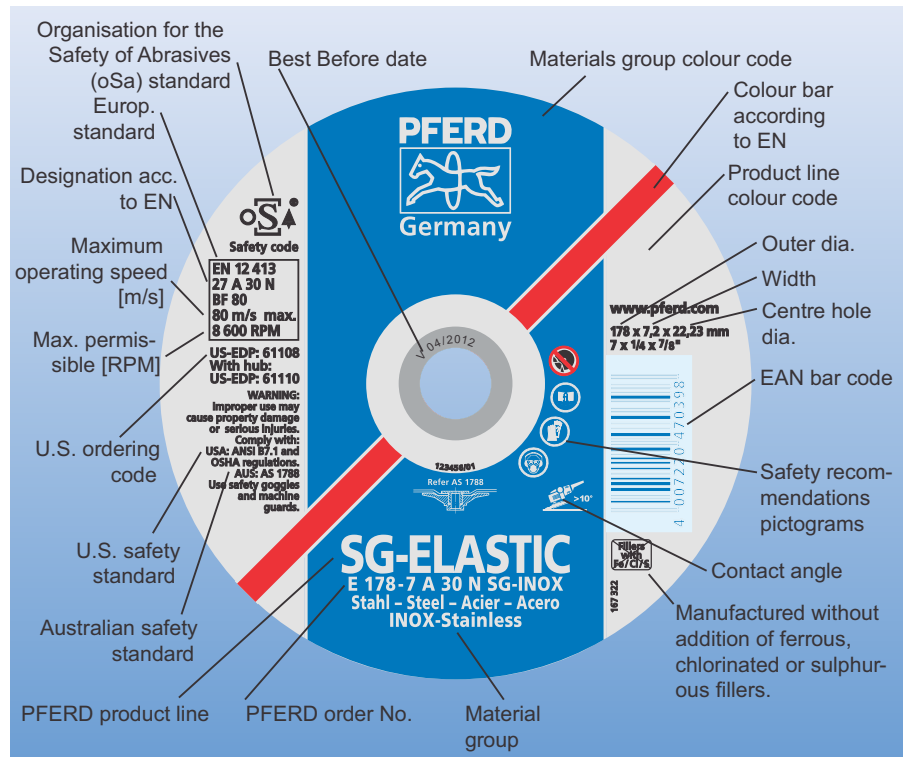
4. Hardness grade (wheel properties)

The hardness is graded from very soft to very hard by means of letters in alphabetically ascending order (A to Z).

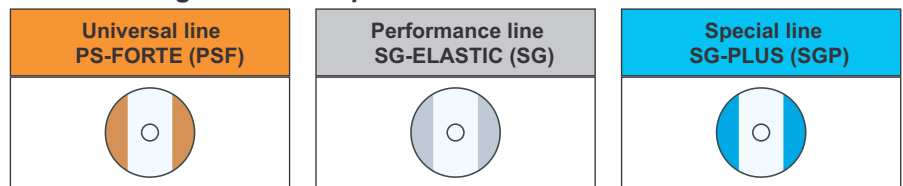
5. Bond

BF = Resinoid bond, fibre-reinforced, woven or non-woven
B = Resinoid bond and other duroplastic bonds

6. Max. operating speed in [m/s]



Colour coding of the three product lines



Colour coding for the recommended materials to be ground

Universal line PS-FORTE (PSF)		Performance line SG-ELASTIC (SG)		Special line SG-PLUS (SGP)	
Material = Colour		Material = Colour		Material = Colour	
	Steel/cast iron black		Steel black		Steel black
	Stainless steel (INOX) blue		Steel/stainless steel (INOX) black/blue		Cast iron red
	Steel/stainless steel (INOX) black/blue		Stainless steel (INOX) blue		
			Steel/cast iron black/red		
			Stone/cast iron green/red		
			Non-ferrous metals/aluminium silver		
			Scale/cast iron/aluminium silver/red		

Cut-Off Wheels

General Information



PFERD order no.
EHT 178-1.6 A 46 R SG-INOX
1 2 3 4 5 6 7 8

1. Designation and shape of the tool

EHT = Flat Cutting Wheel
EH = Raised Hub Cutting Wheel

2. Outer diameter

Outer dia. D in [mm]

3. Disc width

Width T/U in [mm]

4. Abrasive

A = Aluminium oxide
AC = Aluminium oxide/silicon carbide
C = Silicon carbide
ZA = Zirconia alumina/aluminium oxide

5. Grit size

Grit size according ISO 8486

6. Hardness grade (disc properties)

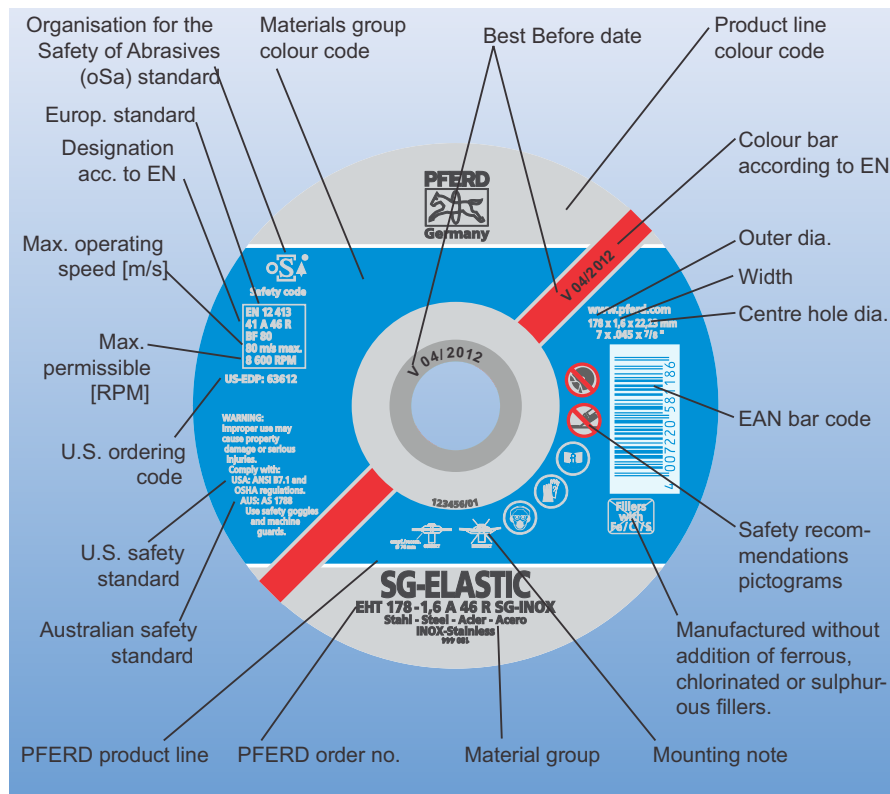
Hardness grade	Disc characteristics	Material groups
Universal line PS-FORTE (PSF)		
P	medium-hard	Steel, stainless steel (INOX), stone
Performance line SG-ELASTIC (SG)		
N	soft	Aluminium/non-ferr. metals
P	medium-hard	Steel, stainless steels (INOX), castings, non-ferr. metals
Q	medium-hard	(INOX) castings, castings
R	hard	Stainless steel (INOX), stone
S	hard	Steel
Special line SG-PLUS (SGP)		
Q	medium-hard	(INOX) castings
S	hard	Stainless steel (INOX)
T	very hard	Steel

7. PFERD product line

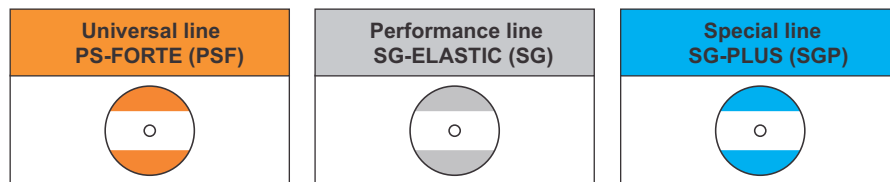
Universal line PS-FORTE (general)
Performance line SG-ELASTIC (premium)
Special line SG-PLUS (premium)

8. Material group

INOX
INOX casting
ALU



Colour coding of the three product lines



Colour coding for the recommended materials to be ground

Universal line PS-FORTE (PSF)		Performance line SG-ELASTIC (SG)		Special line SG-PLUS (SGP)	
Material = Colour		Material = Colour		Material = Colour	
	Steel black		Steel black		Steel black
	Stainless steel (INOX) blue		Stainless steel (INOX) blue		Stainless steel (INOX) blue
	Non-ferrous metals/aluminium/stone silver/green		INOX castings blue/red		INOX castings blue/red
			Cast iron red		Cast iron red
			Stone/cast iron green/red		
			Stone green		
			Non-ferrous metals/aluminium silver		

Designation acc. to EN 12413
41 A 46 R BF 80
1 2 3 4 5 6

1. Designation and shape of the tool

41 = Flat type
42 = Depressed centre type

2. Abrasive

A = Aluminium oxide
C = Silicon carbide
Z = Zirconia alumina
ZA = Zirconia alumina/aluminium oxide

3. Grit size

Grit size according to ISO 8486

4. Hardness grade (disc properties)

The hardness is graded from soft to hard by means of letters in alphabetically ascending order (A to Z).

5. Bond

BF = Fibre-reinforced resinoid bond, woven or non-woven

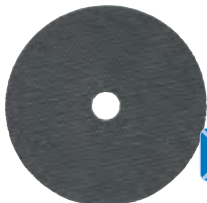
6. Max. operating speed in [m/s]

PRODUCT DESCRIPTION	PAGE	PRODUCT DESCRIPTION	PAGE	PRODUCT DESCRIPTION	PAGE
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Depressed Centre Grinding Wheels - GP (Soft) Steel/INOX	71	Arbors for Small Diameter Cutting Wheels	74	High Performance SGP Strong - FREEZE INOX	78
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Depressed Centre Whisper Grinding	72	Raised Hub Cutting Wheels - Premium	75	Resin Fibre Discs	79
Depressed Centre Premium Grinding Wheels - Aluminium	72	Raised Hub Cutting Wheels - Premium - Steel	75	Resin Fibre Discs - Aluminium Oxide	79
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Ring Wheels - Steel, INOX & Cast Iron	72	Raised Hub Cutting Wheels - Premium - INOX	75	Resin Fibre Discs - Ceramic-COOL	80
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Flared Cup Wheels - Steel	73	Raised Hub Cutting Wheels - Premium - Aluminium	76	COMBICLICK® Backing Pads (soft/medium/hard)	82
Flared Cup Wheels - Stone	73	Diamond Cutting Wheels	76	COMBICLICK® - CC-Grind	82
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Flat Cutting Wheels - Premium - Aluminium	74	Premium SG - Aluminium Oxide - Steel/INOX	77	CC-Grind-Solid - Clamping Flange Set	84
Flat Cutting Wheels - Premium - Aluminium - Ultra Thin	74	Premium SG - Zirconia - Steel/INOX	78		

Size mm/in	Description	Article No.	Barcode		List Price ea. \$	Image
Grinding Wheels - General Purpose						  
Depressed Centre Grinding Wheels - GP - Steel						
100 (4")	E 100 -6 A 30 P PS-Forte	69900126	4007220817148	25	\$1.98	
115 (4 1/2")	E 115 -7 A 30 P PS-Forte	62011634	4007220470510	10	\$2.75	
125 (5")	E 125 -7 A 30 P PS-Forte	62012634	4007220471142	10	\$2.91	
178 (7")	E 178 -7 A 30 P PS-Forte	62017634	4007220470527	10	\$5.60	
230 (9")	E 230 -7 A 30 P PS-Forte	62023634	4007220470541	10	\$6.82	
Depressed Centre Grinding Wheels - GP (Soft) - Steel/INOX						
100 (4")	E 100-6 A 24 L PS-Forte	62010720	4007220643273	10	\$2.80	
115 (4 1/2")	E 115-7 A 24 L PS-Forte	62011640	4007220640852	10	\$3.10	
125 (5")	E 125-7 A 24 L PS-Forte	62012640	4007220640883	10	\$3.25	
150 (6")	E 150-7 A 24 L PS-Forte	62015640	4007220641002	10	\$8.15	
178 (7")	E 178-7 A 24 L PS-Forte	62017640	4007220640999	10	\$5.80	
230 (9")	E 230-7 A 24 L PS-Forte	62023640	4007220640951	10	\$7.69	
Depressed Centre Grinding Wheels - GP - INOX						
100 (4")	E 100-6 A 30 N PSF-INOX	62010620	4007220471128	10	\$2.80	
115 (4 1/2")	E 115-7 A 30 M PSF-INOX	62011631	4007220470565	10	\$3.25	
125 (5")	E 125-7 A 30 M PSF-INOX	62012631	4007220471159	10	\$3.25	
150 (6")	E 150-7 A 30 M PSF-INOX	62015620	4007220471166	10	\$8.15	
178 (7")	E 178-7 A 30 M PSF-INOX	62017631	4007220470572	10	\$5.80	
230 (9")	E 230-7 A 30 M PSF-INOX	62023631	4007220470596	10	\$7.69	

Size mm/in	Description	Article No.	Barcode		List Price ea. \$	Image
Grinding Wheels - General Purpose (continued)						
Depressed Centre Grinding Wheels - GP - Stone						
100 (4")	E 100-6 C 24 P PS-Forte	69900117	4007220817056	25	\$2.09	
115 (4 1/2")	E 115-6 C 24 P PS-Forte	69900118	4007220817063	25	\$2.65	
125 (5")	E 125-6 C 24 P PS-Forte	69900119	4007220817070	25	\$2.91	
178 (7")	E 178-6 C 24 P PS-Forte	69900120	4007220817087	25	\$5.04	
230 (9")	E 230-6 C 24 P PS-Forte	69900121	4007220817094	10	\$7.95	
Grinding Wheels - Premium						
Depressed Centre Premium Grinding Wheels - Steel						
76	E 76-6 A 24 R SG/10.0	62208626	4007220471081	10	\$7.95	 
150 (6")	E 150-7 A 24 R SG	62215726	4007220640791	10	\$10.07	
178 (7")	E 178-4 A 24 R SG-Pipe	62223324	4007220640746	10	\$9.06	
230 (9")	E 230-7 A 24 R SG	62223626	4007220470169	10	\$11.20	
Depressed Centre Premium Grinding Wheels - INOX						
115 (4 1/2")	E 115-4 A 24 O SG-INOX	62211423	4007220457627	10	\$4.13	  
115 (4 1/2")	E 115-7 A 24 O SG-INOX	62211623	4007220470244	10	\$4.69	
125 (5")	E 125-4 A 30 N SG-INOX	62212423	4007220457689	10	\$6.98	
125 (5")	E 125-7 A 30 N SG-INOX	62212623	4007220470251	10	\$5.35	
230 (9")	E 230-7 A 30 N SG-INOX	62223632	4007220470411	10	\$13.18	
Depressed Centre Premium Grinding Wheels Zirconia - Steel/Cast Iron						
230 (9")	E 230-7 ZA 30 S SG	62223628	4007220470459	10	\$17.93	 
115 (4 1/2")	E 115-7 ZA 24 R SGP	62211737	4007220640913	10	\$4.64	
125 (5")	E 125-7 ZA 24 R SGP	62212737	4007220640920	10	\$5.96	
178 (7")	E 178-7 ZA 24 R SGP	62217737	4007220640937	10	\$10.18	
230 (9")	E 230-7 ZA 24 R SGP	62223737	4007220640944	10	\$12.78	
Depressed Centre Whisper Grinding						
115 (4 1/2")	E 115-7 A 46 H SGP-WHISPER	N! 62211848	4007220827505	10	\$12.30	 
125 (5")	E 125-7 A 46 H SGP-WHISPER	N! 62212848	4007220827512	10	\$13.60	
Depressed Centre Premium Grinding Wheels - Aluminium						
115 (4 1/2")	E 115-7 A 24 N SG-ALU	N! 62211622	4007220475393	10	\$5.60	 
125 (5")	E 125-7 A 24 N SG-ALU	62212622	4007220475409	10	\$7.70	
178 (7")	E 178-7 A 24 N SG-ALU	62217622	4007220475416	10	\$10.20	
230 (9")	E 230-7 A 24 N SG-ALU	62223700	4007220617793	10	\$14.50	
Depressed Centre Whisper Grinding - Aluminium						
115 (4 1/2")	E 115-7 A 46 H SGP-WHISPER - ALU	N! 62211858	4007220853443	10	\$14.10	 
125 (5")	E 125-7 A 46 H SGP-WHISPER - ALU	N! 62212858	4007220853450	10	\$15.20	
Ring Wheels - Steel, INOX & Cast Iron						
40	ER 40-6 A 24 M SG/6.0	65304060	4007220165454	20	\$12.61	 
50	ER 50-6 A 24 M SG/6.0	65305060	4007220165461	20	\$13.18	
50	ER 50-10 A 24 M SG/10.0	65305101	4007220165492	20	\$16.75	
70	ER 70-6 A 24 M SG/10.0	65307061	4007220165508	20	\$18.64	
70	ER 70-10 A 24 M SG/10.0	65307101	4007220165515	20	\$20.25	
70	ER 70-15 A 24 M SG/10.0	65307151	4007220165539	20	\$22.40	

Size mm/in	Description	Article No.	Barcode		List Price ea. \$	Image
Grinding Wheels - Premium (continued)						
Arbors for Ring Wheels						
3-10	BO 6/6 3-10	42400006	4007220297650	1	\$23.48	
6-20	BO 8/10 6-20	42400008	4007220297667	1	\$28.48	
Flared Cup Wheels - Steel						
80	50 ETT 80-8 A 36 Q SG/22	63417122	4007220698419	5	\$20.87	
80	50 ETT 80-8 A 80 Q SG/22	63418702	4007220164785	5	\$20.87	
110	50 ETT 110-20 A 16 Q SG/22	63418222	4007220164730	2	\$27.80	
125	50 ETT 125-25 A 16 Q SG/M14	63418402	4007220164747	2	\$53.09	
Flared Cup Wheels - Stone						
80	50 ETT 80-8 C 80 Q SG/22	63588122	4007220164822	5	\$23.11	
110	50 ETT 110-20 C 16 Q SG/22	63518222	4007220164808	2	\$27.80	
110	50 ETT 110-20 C 30 Q SG/23	63538222	4007220164815	2	\$27.80	
Depressed Centre Grinding / Cutting Wheels - General Purpose						
DUODISC® - Cut & Grind (2 in 1 - Steel/INOX)						
100 (4")	E 100-1.9 A 46 P PSF-INOX-DUO	62010630	4007220845578	10	\$3.16	
115 (4 1/2")	E 115-2.8 A 46 P PSF-INOX-DUO	62011620	4007220754498	10	\$3.36	
115 (4 1/2")	E 115-1.9 A 46 P PSF-INOX-DUO	62011630	4007220835081	10	\$4.47	
125 (5")	E 125-2.8 A 46 P PSF-INOX-DUO	62012620	4007220754504	10	\$3.62	
125 (5")	E 125-1.9 A 46 P PSF-INOX-DUO	62012630	4007220835098	10	\$4.47	
Cutting Wheels - General Purpose						
Flat Cutting Wheels - General Purpose (Steel)						
100 (4")	EHT 100-2.4 A 46 P PSF	61741116	4007220321256	25	\$2.09	
115 (4 1/2")	EHT 115-2.4 A 46 P PSF	61730026	4007220669174	25	\$2.40	
125 (5")	EHT 125-2.4 A 46 P PSF	61719026	4007220669167	25	\$2.40	
150 (6")	EHT 150-3.0 A 24 P PSF	69901139	4007220550267	25	\$3.05	
178 (7")	EHT 178-3.0 A 24 P PSF	61726222	4007220163474	25	\$3.51	
230 (9")	EHT 230-3.0 A 24 P PSF	61728222	4007220163498	25	\$3.56	
Flat Cutting Wheels - General Purpose (INOX)						
115 (4 1/2")	EHT 115-2.4 A 46 P PSF-INOX	61730122	4007220523025	25	\$2.49	
125 (5")	EHT 125-2.4 A 46 P PSF-INOX	61721122	4007220523049	25	\$2.69	
230 (9")	EHT 230-2.5 A 24 P PSF-INOX	61728122	4007220523087	25	\$4.22	
Flat Cutting Wheels - General Purpose (Stone)						
100 (4")	EHT 100 -2.4 C 46 R SG	61621116	4007220163016	25	\$3.05	
115 (4 1/2")	EHT 115 -2.4 C 30 S SG *	61640222	4007220163276	25	\$2.75	
125 (5")	EHT 125 -2.4 C 30 R SG	69902056	4007220662526	25	\$3.05	
178 (7")	EHT 178 -3.2 C 24 P PSF	61826222	4007220163641	25	\$3.25	
230 (9")	EHT 230 -3.2 C 24 P PSF	61828222	4007220163658	25	\$4.58	
Cutting Wheels - Premium						
Flat Cutting Wheels - Premium (Steel)						
100 (4")	EHT 100 -2.4 A 46 S SG	61340116	4007220162590	25	\$2.40	
115 (4 1/2")	EHT 115 -2.4 A 30 S SG	61340222	4007220162637	25	\$2.69	
125 (5")	EHT 125 -2.4 A 30 S SG	61321222	4007220162231	25	\$2.80	
150 (6")	EHT 150 -3.0 A 24 S SG	61322222	4007220162248	25	\$4.44	
178 (7")	EHT 178 -3.2 A 24 S SG	61326222	4007220162347	25	\$4.02	
230 (9")	EHT 230 -3.2 A 24 S SG	61328222	4007220162422	25	\$5.45	

Size mm/in	Description	Article No.	Barcode		List Price ea. \$	Image	
Cutting Wheels - Premium (continued)							
Flat Cutting Wheels - Premium (INOX)							
100 (4")	EHT 100-2.4 A 46 R SG-INOX	69120745	4007220574485	25	\$2.60	 	
115 (4 1/2")	EHT 115-2.4 A 46 R SG-INOX	61340432	4007220522851	25	\$2.69		
125 (5")	EHT 125-2.4 A 46 R SG-INOX	61331432	4007220522875	25	\$2.80		
178 (7")	EHT 178-2.5 A 24 R SG-INOX	61326422	4007220162378	25	\$4.33		
230 (9")	EHT 230-2.5 A 24 R SG-INOX	61328422	4007220162446	25	\$6.31		
Flat Cutting Wheels - Premium (Aluminium)							
115 (4 1/2")	EHT 115-2.4 A 30 N SG-ALU	61340550	4007220617892	25	\$3.62		
125 (5")	EHT 125-2.4 A 30 N SG-ALU	61331550	4007220617786	25	\$3.62		
178 (7")	EHT 178-2.9 A 24 N SG-ALU	61326323	4007220538487	25	\$5.15		
230 (9")	EHT 230-2.9 A 24 N SG-ALU	61328323	4007220538524	25	\$8.25		
Flat Cutting Wheels - Premium (Aluminium - Ultra Thin)							
100 (4")	EHT 100-1.0 A 60 N SG ALU	N! 61339430	4007220885222	25	\$3.10		
115 (4 1/2")	EHT 115-1.0 A 60 N SG ALU	61340415	4007220804964	25	\$3.67		
115 (4 1/2")	EHT 115-1.6 A 46 N SG ALU	61340425	4007220804988	25	\$3.67		
125 (5")	EHT 125-1.0 A 60 N SG ALU	61341115	4007220804995	25	\$3.87		
125 (5")	EHT 125-1.6 A 46 N SG ALU	61341225	4007220805008	25	\$3.87		
178 (7")	EHT 178-1.6 A 46 N SG ALU	61326119	4007220805015	25	\$4.69	 	
Flat Cutting Wheels - Premium (Cast Iron)							
230 (9")	EHT 230-3.2 A C 24 Q SG	61328802	4007220522912	25	\$6.98		
Small Diameter Cutting Wheels (Steel/INOX)							
30	EHT 30-1.1 A 60 P SG/6.0	65503010	4007220165621	50	\$3.62	 	
30	EHT 30-1.4 A 60 P SG/6.0	65503020	4007220165638	50	\$3.62		
40	EHT 40-1.1 A 60 P SG/6.0	65504010	4007220165645	50	\$3.82	 	
40	EHT 40-2.1 A 60 P SG/6.0	65504020	4007220165652	50	\$4.44		
50	EHT 50-1.1 A 60 P SG/6.0	65505000	4007220165669	50	\$4.44		
50	EHT 50-1.4 A 60 P SG/6.0	65505010	4007220165676	50	\$4.44		
50	EHT 50-2.1 A 46 P SG/6.0	65505020	4007220165683	50	\$4.44		
50	EHT 50-3.0 A 46 P SG/6.0	65505030	4007220165690	50	\$5.35		
65	EHT 65-1.1 A 60 P SG/6.0	65506000	4007220165706	50	\$4.78		
65	EHT 65-1.1 A 60 P SG/10.0	65506001	4007220165713	50	\$4.78		
65	EHT 65-1.4 A 60 P SG/10.0	65506011	4007220165720	50	\$4.78		
65	EHT 65-2.1 A 46 P SG/10.0	65506021	4007220165737	50	\$4.78		
65	EHT 65-3.0 A 46 P SG/10.0	65506031	4007220165744	50	\$4.78		
70	EHT 70-1.1 A 60 P SG/10.0	65507001	4007220165751	50	\$4.78		
70	EHT 70-1.4 A 60 P SG/10.0	65507011	4007220165768	50	\$4.78		
70	EHT 70-2.1 A 46 P SG/10.0	65507021	4007220165775	50	\$4.78		
76	EHT 76-1.1 A 60 P SG/6.0	65508000	4007220165812	50	\$5.71		
76	EHT 76-1.1 A 60 P SG/10.0	65508001	4007220165829	50	\$5.71		
76	EHT 76-0.8 A 60 P SG/6.0	N! 65508009	4007220849217	50	\$5.14	 	
76	EHT 76-0.8 A 60 P SG/10.0	N! 65508008	4007220849200	50	\$5.14		
76	EHT 76-2.1 A 46 P SG/10.0	N! 65508021	4007220165843	50	\$5.94		
Arbors for Small Diameter Cutting Wheels							
0-4	BO 6/6 0-4 (6mm Shank, 6mm Hole)	33510000	4007220219119	1	\$25.28		
0-4	BO 6.35/6 0-4 (1/4" Shank, 6mm Hole)	33511000	4007220219126	1	\$25.28		
0-4	BO 6/10 0-4 (6mm Shank, 10mm Hole)	33512000	4007220219140	1	\$25.28		
0-4	BO 6.35/10 0-4 (1/4" Shank, 10mm Hole)	33513000	4007220219133	1	\$29.58		
Flat Cutting Wheels - Premium (INOX - Ultra Thin)							
100 (4")	EHT 100-1.0 A 60 R SG-INOX	61339412	4007220511787	25	\$2.80	 	
115 (4 1/2")	EHT 115-1.0 A 60 R SG-INOX	61340412	4007220499702	25	\$3.05		
125 (5")	EHT 125-1.0 A 60 R SG-INOX	61341112	4007220499733	25	\$3.16		
115 (4 1/2")	EHT 115-1.6 A 46 R SG-INOX	61340422	4007220355442	25	\$3.05		
125 (5")	EHT 125-1.6 A 46 R SG-INOX	61341122	4007220355459	25	\$3.16		

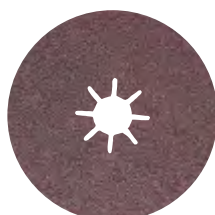
Size mm/in	Description	Article No.	Barcode		List Price ea. \$	Image
Cutting Wheels - Premium (continued)						
Flat Cutting Wheels - Premium(INOX - Ultra Thin) (continued)						 
150 (6")	EHT 150-1.6 A 46 R SG-INOX	61342122	4007220581179	25	\$5.04	
178 (7")	EHT 178-1.6 A 46 S SGP-INOX	61343122	4007220357873	25	\$4.98	
230 (9")	EHT 230-1.9 A 46 S SGP-INOX	61328702	4007220522776	25	\$8.20	
230 (9")	EHT 230-1.9 A 46 R SG-INOX	61328430	4007220807736	25	\$8.20	
Flat Cutting Wheels - Premium (INOX - Extra Slim)						 
100 (4")	EHT 100-0.8 A 60 S SGP-INOX X-SLIM	61339494	4007220845103	25	\$4.69	
115 (4 1/2")	EHT 115-0.8 A 60 S SGP-INOX X-SLIM	61340394	4007220835357	25	\$4.78	
125 (5")	EHT 125-0.8 A 60 S SGP-INOX X-SLIM	61341094	4007220835364	25	\$5.29	
Raised Hub Cutting Wheels - Premium (INOX - Extra Slim)						 
115 (4 1/2")	EH 115-0.8 A 60 S SGP-INOX X-SLIM *	61340393	4007220669327	25	\$4.78	
125 (5")	EH 125-0.8 A 60 S SGP-INOX X-SLIM *	61341093	4007220669334	25	\$5.24	
Raised Hub Cutting Wheels - General Purpose						
Raised Hub Cutting Wheels - General Purpose (Steel)						 
100 (4")	EH 100-2.4 A 46 P PSF	61739116	4007220163511	25	\$2.24	
115 (4 1/2")	EH 115-2.4 A 46 P PSF	61740122	4007220163528	25	\$2.49	
125 (5")	EH 125-2.4 A 46 P PSF	61720222	4007220163429	25	\$2.69	
178 (7")	EH 178-3.0 A 24 P PSF	61723222	4007220163436	25	\$3.71	
230 (9")	EH 230-3.0 A 24 P PSF	61724222	4007220163450	25	\$4.22	
Raised Hub Cutting Wheels - General Purpose (Stone)						 
100 (4")	EH 100-2.4 C 30 P PSF	61839116	4007220523124	25	\$2.80	
115 (4 1/2")	EH 115-2.4 C 30 P PSF	61830122	4007220163665	25	\$3.00	
125 (5")	EH 125-2.4 C 30 P PSF	61820222	4007220163597	25	\$3.11	
150 (6")	EH 150-3.0 C 24 P PSF	61823326	4007220523131	25	\$4.22	
230 (9")	EH 230-3.0 C 24 P PSF	61824222	4007220163627	25	\$4.78	
Raised Hub Cutting Wheels - Premium						
Raised Hub Cutting Wheels - Premium (Steel)						 
100 (4")	EH 100-2.4 A 46 S SG	61339116	4007220162576	25	\$2.95	
115 (4 1/2")	EH 115-2.4 A 30 S SG	61340122	4007220162606	25	\$2.69	
125 (5")	EH 125-2.4 A 30 S SG	61320222	4007220162217	25	\$2.80	
178 (7")	EH 178-3.2 A 24 S SG	61323222	4007220162262	25	\$4.22	
230 (9")	EH 230-3.2 A 24 S SG	61324222	4007220162309	25	\$5.80	
Raised Hub Cutting Wheels - Premium Pipe Notching (Steel)						 
125 (5")	EH 125-3.2 A 46 SG-INOX Notching	69900064	4007220790861	20	\$3.51	
178 (7")	EH 178-3.4 A 24 SG-INOX Notching	69900066	4007220790885	20	\$4.33	
230 (9")	EH 230-3.2 A 24 S SG	61324322	4007220522684	20	\$6.98	
Raised Hub Cutting Wheels - Premium (INOX)						 
100 (4")	EH 100-2.4 A 46 R SG-INOX	69198031	4007220433539	25	\$2.69	
115 (4 1/2")	EH 115-2.4 A 46 R SG-INOX	61340123	4007220162613	25	\$2.80	
125 (5")	EH 125-2.4 A 46 R SG-INOX	61341222	4007220162651	25	\$3.16	
178 (7")	EH 178-2.5 A 24 R SG-INOX	61323223	4007220162279	25	\$4.89	
230 (9")	EH 230-2.5 A 24 R SG-INOX	61324223	4007220162316	25	\$6.42	
Raised Hub Cutting Wheels - Premium (Cast Iron)						 
230 (9")	EH 230-3.2 A C 24 Q SG	61324802	4007220522929	25	\$6.98	

* Discontinued - Available Only While Stocks Last

Size mm/in	Description	Article No.	Barcode		List Price ea. \$	Image
Raised Hub Cutting Wheels - Premium (continued)						
Raised Hub Cutting Wheels - Premium (Aluminium)						
125 (5")	EH 125-2.4 A 30 N SG-ALU	61320822	4007220389027	25	\$4.47	
230 (9")	EH 230-2.9 A 24 N SG-ALU	61324323	4007220538548	25	\$8.25	
Diamond Cutting Wheels						
General Purpose - Segmented Type DS						
100 (4")	DS 100 x 1.6 x 16.0 PSF	68300037	4007220820339	1	\$11.09	
115 (4 1/2")	DS 115 x 1.6 x 22.23 PSF	68300044	4007220833117	1	\$14.96	
125 (5")	DS 125 x 1.6 x 22.23 PSF	68300045	4007220833124	1	\$14.96	
178 (7")	DS 178 x 2.0 x 22.23 PSF	68300038	4007220820346	1	\$35.13	
230 (9")	DS 230 x 2.3 x 22.23 PSF	68300039	4007220820353	1	\$52.44	
General Purpose - Turbo Type DG						
100 (4")	DG 100 x 1.6 x 16.0 PSF	68300036	4007220820322	1	\$11.09	
115 (4 1/2")	DG 115 x 1.9 x 22.23 PSF	68300042	4007220833094	1	\$14.96	
125 (5")	DG 125 x 1.9 x 22.23 PSF	68300043	4007220833100	1	\$14.96	
178 (7")	DG 178 x 22.23 PSF	68017222	4007220641422	1	\$74.98	
230 (9")	DG 230 x 22.23 PSF	68023222	4007220641439	1	\$97.85	
General Purpose - Continuous Rim Type DG-FL						
100 (4")	DG 100 x 1.6 x 16.0 FL PSF	68300035	4007220820315	1	\$11.09	
115 (4 1/2")	DG 115 x 1.6 x 22.23 FL PSF	68300040	4007220833070	1	\$14.96	
125 (5")	DG 125 x 1.6 x 22.23 FL PSF	68300041	4007220833087	1	\$14.96	
Premium - Segmented Type DS H						
125 (5")	DS 125 x 22.23 H SG	68000042	4007220801093	1	\$152.73	
230 (9")	DS 230 x 22.23 H SG	68000044	4007220801116	1	\$246.40	
350 (14")	DS 350 x 20.0 H SG	68000047	4007220801154	1	\$488.73	
350 (14")	DS 350 x 25.4 H SG	68000048	4007220801161	1	\$488.73	
400 (16")	DS 400 x 3.8 x 25.4 SG	68000049	4007220801178	1	\$631.27	
Flexible Grinding Wheels						
Flexible AC Blending Discs - (For use with Support Pad)						
General Purpose - PSF (Steel/INOX)						
100 (4")	FD 100-3 AC 36 H PSF-FLEX	62051036	4007220724101	20	\$2.69	
100 (4")	FD 100-3 AC 46 H PSF-FLEX	62051046	4007220724118	20	\$2.69	
100 (4")	FD 100-3 AC 60 H PSF-FLEX	62051060	4007220724125	20	\$2.69	
115 (4 1/2")	FD 115-3 AC 36 H PSF-FLEX	62051136	4007220724132	25	\$3.20	
115 (4 1/2")	FD 115-3 AC 46 H PSF-FLEX	62051146	4007220724149	25	\$3.20	
115 (4 1/2")	FD 115-3 AC 60 H PSF-FLEX	62051160	4007220724156	25	\$3.20	
125 (5")	FD 125-3 AC 36 H PSF-FLEX	62051236	4007220724163	25	\$3.71	
125 (5")	FD 125-3 AC 46 H PSF-FLEX	62051246	4007220724170	25	\$3.71	
125 (5")	FD 125-3 AC 60 H PSF-FLEX	62051260	4007220724187	25	\$3.71	
180 (7")	FD 180-3 AC 36 H PSF-FLEX	62051836	4007220724194	25	\$4.84	
180 (7")	FD 180-3 AC 46 H PSF-FLEX	62051846	4007220724200	25	\$4.84	
180 (7")	FD 180-3 AC 60 H PSF-FLEX	62051860	4007220724217	25	\$4.84	
Each box supplied with two support pads						

Size mm/in	Description	Article No.	Barcode		List Price ea. \$	Image
Polifan (Flap Discs)						
General Purpose PSF Aluminium Oxide (Steel/INOX)						
115 (4 1/2")	PFC 115-A 40 PSF	67744115	4007220444559	10	\$8.92	 
115 (4 1/2")	PFC 115-A 60 PSF	67746115	4007220444566	10	\$8.92	
115 (4 1/2")	PFC 115-A 80 PSF	67748115	4007220444573	10	\$8.92	
115 (4 1/2")	PFC 115-A 120 PSF	67749115	4007220444580	10	\$8.92	
125 (5")	PFC 125-A 40 PSF	67744125	4007220444603	10	\$9.80	
125 (5")	PFC 125-A 60 PSF	67746125	4007220444610	10	\$9.80	
125 (5")	PFC 125-A 80 PSF	67748125	4007220444627	10	\$9.80	
125 (5")	PFC 125-A 120 PSF	67749125	4007220444634	10	\$9.80	
180 (7")	PFC 180-A 40 PSF	67744185	4007220444689	10	\$14.08	
180 (7")	PFC 180-A 60 PSF	67746185	4007220444696	10	\$14.08	
General Purpose PSF Zirconia (Steel/INOX)						
100 (4")	PFF 100-Z 40 PSF †	69300660	4007220750117	10	\$8.92	 
100 (4")	PFF 100-Z 60 PSF †	69300661	4007220750124	10	\$8.92	
100 (4")	PFF 100-Z 80 PSF †	69300662	4007220750131	10	\$8.92	
100 (4")	PFF 100-Z 120 PSF †	69300687	4007220797242	10	\$8.92	
100 (4")	PFC 100-Z 40 PSF	69398123	4007220898130	10	\$8.92	
100 (4")	PFC 100-Z 60 PSF	69398124	4007220898147	10	\$8.92	
100 (4")	PFC 100-Z 80 PSF	69398125	4007220898154	10	\$8.92	
100 (4")	PFC 100-Z 120 PSF	69398126	4007220898161	10	\$8.92	
115 (4 1/2")	PFC 115-Z 40 PSF	67764115	4007220377352	10	\$8.92	
115 (4 1/2")	PFC 115-Z 60 PSF	67766115	4007220444597	10	\$8.92	 
115 (4 1/2")	PFC 115-Z 80 PSF	67768115	4007220377369	10	\$8.92	
115 (4 1/2")	PFC 115-Z 120 PSF	69300356	4007220568798	10	\$8.92	
125 (5")	PFC 125-Z 40 PSF	67764125	4007220377345	10	\$9.80	
125 (5")	PFC 125-Z 60 PSF	67766125	4007220444078	10	\$9.80	
125 (5")	PFC 125-Z 80 PSF	67768125	4007220377338	10	\$9.80	
125 (5")	PFC 125-Z 120 PSF	69300298	4007220535912	10	\$9.80	
180 (7")	PFC 180-Z 40 PSF	67764185	4007220377321	10	\$16.00	
180 (7")	PFC 180-Z 60 PSF	67766185	4007220444085	10	\$16.00	
180 (7")	PFC 180-Z 80 PSF	69300343	4007220558959	10	\$16.00	
† IMPORTANT - PFF 100 (4") Z PSF Polifan® will be superceded by the listed PFC 100 (4") Polifan® as stocks are exhausted.						
Premium SG Aluminium Oxide (Steel/INOX)						
100 (4")	PFF 100 A 40 SG	67604100	4007220262719	10	\$10.20	 
100 (4")	PFF 100 A 60 SG	67606100	4007220262733	10	\$10.20	
100 (4")	PFF 100 A 80 SG	67608100	4007220262740	10	\$10.20	
100 (4")	PFF 100 A 120 SG	67612100	4007220262757	10	\$10.20	
115 (4 1/2")	PFC 115 A 40 SG	67704115	4007220167809	10	\$11.00	
115 (4 1/2")	PFC 115 A 60 SG	67706115	4007220167830	10	\$11.00	
115 (4 1/2")	PFC 115 A 80 SG	67708115	4007220167861	10	\$11.00	
115 (4 1/2")	PFC 115 A 120 SG	67712115	4007220167892	10	\$11.00	
125 (5")	PFC 125 A 40 SG	67704125	4007220167816	10	\$11.88	
125 (5")	PFC 125 A 60 SG	67706125	4007220167847	10	\$11.88	 
125 (5")	PFC 125 A 80 SG	67708125	4007220167878	10	\$11.88	
125 (5")	PFC 125 A 120 SG	67712125	4007220167908	10	\$11.88	
180 (7")	PFC 180 A 24 SG	67702185	4007220167793	10	\$15.84	
180 (7")	PFC 180 A 40 SG	67704185	4007220167823	10	\$15.84	
180 (7")	PFC 180 A 60 SG	67706185	4007220167854	10	\$15.84	
180 (7")	PFC 180 A 80 SG	67708185	4007220167885	10	\$15.84	
180 (7")	PFC 180 A 120 SG	67712185	4007220167915	10	\$15.84	

Size mm/in	Description	Article No.	Barcode		List Price ea. \$	Image
Polifan (Flap Discs) (continued)						
Premium SG Zirconia (Steel/INOX)						
100 (4")	PFF 100 ZA 40 SG	67650104	4007220800126	10	\$11.12	 
100 (4")	PFF 100 ZA 60 SG	67650106	4007220800133	10	\$11.12	
100 (4")	PFF 100 ZA 80 SG	67650108	4007220800140	10	\$11.12	
115 (4 1/2")	PFC 115 Z 40 SG	67784115	4007220167922	10	\$11.00	
115 (4 1/2")	PFC 115 Z 60 SG	67786115	4007220167953	10	\$11.00	
115 (4 1/2")	PFC 115 ZA 80 SG	67750208	4007220800423	10	\$11.00	
125 (5")	PFC 125 Z 40 SG	67784125	4007220167939	10	\$11.88	
125 (5")	PFC 125 Z 60 SG	67786125	4007220167960	10	\$11.88	
125 (5")	PFC 125 ZA 80 SG	67750308	4007220800454	10	\$11.88	
180 (7")	PFC 180 Z 40 SG	67784185	4007220167946	10	\$18.48	
180 (7")	PFC 180 Z 60 SG	67786185	4007220167977	10	\$18.48	
180 (7")	PFC 180 ZA 80 SG	67750408	4007220800492	10	\$18.48	
Premium SG COOL - Aluminium Oxide Top Size (ALU/INOX)						
100 (4")	PFF 100 A 40 SG-COOL	67654100	4007220262764	10	\$11.12	 
100 (4")	PFF 100 A 60 SG-COOL	67656100	4007220262771	10	\$11.12	
100 (4")	PFF 100 A 80 SG-COOL	67658100	4007220262788	10	\$11.12	
115 (4 1/2")	PFC 115 A 40 SG-COOL	67754115	4007220232880	10	\$12.32	
115 (4 1/2")	PFC 115 A 60 SG-COOL	67756115	4007220232897	10	\$12.32	
115 (4 1/2")	PFC 115 A 80 SG-COOL	67758115	4007220232903	10	\$12.32	
125 (5")	PFC 125 A 40 SG-COOL	67754125	4007220232927	10	\$13.20	
125 (5")	PFC 125 A 60 SG-COOL	67756125	4007220232941	10	\$13.20	
125 (5")	PFC 125 A 80 SG-COOL	67758125	4007220232965	10	\$13.20	
180 (7")	PFC 180 A 40 SG-COOL	67754185	4007220232972	10	\$18.48	
180 (7")	PFC 180 A 60 SG-COOL	67756185	4007220232996	10	\$18.48	
180 (7")	PFC 180 A 80 SG-COOL	67758185	4007220233016	10	\$18.48	
High Performance SGP STRONG (Steel/INOX)						
115 (4 1/2")	PFC 115 Z 36 SGP-STRONG	67788015	4007220777862	10	\$26.00	  
115 (4 1/2")	PFC 115 Z 50 SGP-STRONG	67788115	4007220777879	10	\$26.00	
125 (5")	PFC 125 Z 36 SGP-STRONG	67788025	4007220777886	10	\$26.80	
125 (5")	PFC 125 Z 50 SGP-STRONG	67788125	4007220777893	10	\$26.80	
180 (7")	PFC 180 Z 36 SGP-STRONG	67788080	4007220827468	10	\$41.30	
180 (7")	PFC 180 Z 50 SGP-STRONG	67788180	4007220827482	10	\$41.30	
High Performance SGP STRONG - FREEZE (INOX)						
125 (5")	PFC 125 CO 36 SGP-STRONG-FREEZE	N! 67789025	4007220835319	10	\$25.30	  
125 (5")	PFC 125 CO 50 SGP-STRONG-FREEZE	N! 67789125	4007220835326	10	\$25.30	
180 (7")	PFC 180 CO 36 SGP-STRONG-FREEZE	N! 67789080	4007220835333	10	\$45.60	
180 (7")	PFC 180 CO 50 SGP-STRONG-FREEZE	N! 67789180	4007220835340	10	\$45.60	
High Performance SGP SPECIALTY (Steel/INOX)						
180 (7")	PFF 180 Z 40 SGP-EXTRA* (Zirconia)	67634185	4007220614693	10	\$25.52	    
180 (7")	PFC 180 Z 40 SGP-POWER* (Zirconia)	67777185	4007220618585	10	\$25.52	
125 (5")	PFC 125 A 40 SGP-CORNER* (Aluminium Oxide)	67755125	4007220614655	10	\$14.85	
125 (5")	PFC 125 Z 40 SGP-CORNER* (Zirconia)	67775125	4007220614648	10	\$14.85	

Size mm/in	Description	Article No.	Barcode		List Price ea. \$	Image	
Polifan (Flap Discs) (continued)							
High Performance SGP CURVE (Steel/INOX/ALU)							
115 (4 1/2")	PFR 115 Z 40 SGP-CURVE M	67689032	4007220821671	10	\$27.60	        	
115 (4 1/2")	PFR 115 Z 40 SGP-CURVE L	67689042	4007220821695	10	\$27.60		
125 (5")	PFR 125 Z 40 SGP-CURVE M	67689052	4007220790151	10	\$28.24		
125 (5")	PFR 125 Z 40 SGP-CURVE L	67689062	4007220790175	10	\$28.24		
115 (4 1/2")	PFR 115 CO 60 SGP-CURVE M	67689036	4007220827444	10	\$30.40		
115 (4 1/2")	PFR 115 CO 60 SGP-CURVE L	67689046	4007220827451	10	\$30.40		
125 (5")	PFR 125 CO 60 SGP-CURVE M	67689056	4007220790168	10	\$32.00		
125 (5")	PFR 125 CO 60 SGP-CURVE L	67689066	4007220790182	10	\$32.00		
115 (4 1/2")	PFR 115 A 40 SGP-CURVE L ALU	N! 67689048	4007220851968	10	\$25.60		
125 (5")	PFR 125 A 40 SGP-CURVE L ALU	N! 67689068	4007220851975	10	\$26.40		
High Performance SGP-COOL Ceramic (Steel/INOX)							
115 (4 1/2")	PFC 115 CO 40 SGP-COOL	67760415	4007220725443	10	\$14.44		
125 (5")	PFC 125 CO 40 SGP-COOL	67760425	4007220725467	10	\$15.68		
180 (7")	PFC 180 CO 40 SGP-COOL	67760485	4007220725481	10	\$27.28		
Fibre Discs - Backing Pads							
Backing Pads (General Purpose)							
100 (4")	GT 100 MF M10 x 1.25	47600051	4007220818329	1	\$13.30		
100 (4")	GT 100 MF M10 x 1.5	47600050	4007220818312	1	\$13.30		
115 (4 1/2")	GT 115 MF M14	44890030	4007220668054	1	\$23.80		
125 (5")	GT 125 MF M14	44890040	4007220668061	1	\$26.32		
180 (7")	GT 180 MF M14	44890060	4007220668085	1	\$37.80		
Backing Pads (High Performance)							
100 (4")	H-GT 100 M10 x 1.5	47600048	4007220818299	1	\$18.90		
115 (4 1/2")	H-GT 115 M14	44890080	4007220668115	1	\$27.86		
125 (5")	H-GT 125 M14	44890090	4007220668122	1	\$30.10		
180 (7")	H-GT 180 M14	44890100	4007220668139	1	\$49.00		
Resin Fibre Discs							
Resin Fibre Discs - Aluminium Oxide							
100 (4")	FS 100-16 A 16	69400019	4007220820735	25	\$1.16		
100 (4")	FS 100-16 A 24	69401016	4007220228012	25	\$1.16		
100 (4")	FS 100-16 A 36	69401015	4007220227442	25	\$1.16		
100 (4")	FS 100-16 A 60	69401023	4007220228319	25	\$1.00		
100 (4")	FS 100-16 A 80	69401024	4007220228326	25	\$1.00		
100 (4")	FS 100-16 A 100	69401019	4007220228043	25	\$1.00		
100 (4")	FS 100-16 A 120	69401067	4007220306444	25	\$1.00		
115 (4 1/2")	FS 115-22 A 16	64101111	4007220164914	25	\$1.44		
115 (4 1/2")	FS 115-22 A 24	64102111	4007220164952	25	\$1.32		
115 (4 1/2")	FS 115-22 A 36	64103111	4007220165003	25	\$1.32		
115 (4 1/2")	FS 115-22 A 60	64106111	4007220165058	25	\$1.16		
115 (4 1/2")	FS 115-22 A 80	64108111	4007220165102	25	\$1.16		
115 (4 1/2")	FS 115-22 A 100	64110111	4007220165157	25	\$1.16		
115 (4 1/2")	FS 115-22 A 120	64112111	4007220500934	25	\$1.16		
125 (5")	FS 125-22 A 16	64101125	4007220164921	25	\$1.52		
125 (5")	FS 125-22 A 24	64102125	4007220164969	25	\$1.52		
125 (5")	FS 125-22 A 36	64103125	4007220165010	25	\$1.52		
125 (5")	FS 125-22 A 60	64106125	4007220165065	25	\$1.24		
125 (5")	FS 125-22 A 80	64108125	4007220165119	25	\$1.24		
125 (5")	FS 125-22 A 120	64112125	4007220500941	25	\$1.24		
180 (7")	FS 180-22 A 16	64101175	4007220164945	25	\$3.38		
180 (7")	FS 180-22 A 24	64102175	4007220164983	25	\$2.70		
180 (7")	FS 180-22 A 36	64103175	4007220165034	25	\$2.38		
180 (7")	FS 180-22 A 60	64106175	4007220165089	25	\$2.20		
180 (7")	FS 180-22 A 80	64108175	4007220165133	25	\$2.20		
180 (7")	FS 180-22 A 100	64110175	4007220165188	25	\$2.20		
180 (7")	FS 180-22 A 120	64112175	4007220165201	25	\$2.20		

Size mm/in	Description	Article No.	Barcode		List Price ea. \$	Image
Resin Fibre Discs (continued)						  
Resin Fibre Discs - Zirconia						
100 (4")	FS 100-16 Z 24	69400014	4007220820681	25	\$1.44	
100 (4")	FS 100-16 Z 36	69400016	4007220820704	25	\$1.44	
100 (4")	FS 100-16 Z 60	69400017	4007220820711	25	\$1.16	
100 (4")	FS 100-16 Z 80	69400018	4007220820728	25	\$1.16	
100 (4")	FS 100-16 Z 120	69400015	4007220820698	25	\$1.16	
115 (4 1/2")	FS 115-22 Z 24	64202111	4007220216569	25	\$1.76	
115 (4 1/2")	FS 115-22 Z 36	64203111	4007220216576	25	\$1.76	
115 (4 1/2")	FS 115-22 Z 60	64206111	4007220216590	25	\$1.44	
115 (4 1/2")	FS 115-22 Z 80	64208111	4007220216606	25	\$1.44	
115 (4 1/2")	FS 115-22 Z 120	64212111	4007220696613	25	\$1.44	
125 (5")	FS 125-22 Z 24	64202125	4007220216613	25	\$2.04	
125 (5")	FS 125-22 Z 36	64203125	4007220216620	25	\$2.04	
125 (5")	FS 125-22 Z 60	64206125	4007220216644	25	\$1.60	
125 (5")	FS 125-22 Z 80	64208125	4007220216651	25	\$1.60	
125 (5")	FS 125-22 Z 120	64212125	4007220696637	25	\$1.60	
180 (7")	FS 180-22 Z 24	64202175	4007220216668	25	\$4.14	
180 (7")	FS 180-22 Z 36	64203175	4007220216675	25	\$3.74	
180 (7")	FS 180-22 Z 60	64206175	4007220216699	25	\$3.28	
180 (7")	FS 180-22 Z 80	64208175	4007220216705	25	\$3.28	
180 (7")	FS 180-22 Z 120	64212175	4007220696651	25	\$3.28	
Resin Fibre Discs - Ceramic-COOL						  
115 (4 1/2")	FS 115-22 CO-COOL 36	64173111	4007220696897	25	\$4.20	
115 (4 1/2")	FS 115-22 CO-COOL 60	64176111	4007220696910	25	\$3.68	
115 (4 1/2")	FS 115-22 CO-COOL 80	64178111	4007220696927	25	\$3.32	
115 (4 1/2")	FS 115-22 CO-COOL 120	64182111	4007220696941	25	\$2.92	
125 (5")	FS 125-22 CO-COOL 36	64173125	4007220696965	25	\$4.56	
125 (5")	FS 125-22 CO-COOL 60	64176125	4007220696989	25	\$3.32	
125 (5")	FS 125-22 CO-COOL 80	64178125	4007220696996	25	\$2.92	
125 (5")	FS 125-22 CO-COOL 120	64182125	4007220697016	25	\$2.84	
180 (7")	FS 180-22 CO-COOL 36	64173175	4007220697030	25	\$6.66	
180 (7")	FS 180-22 CO-COOL 60	64176175	4007220697054	25	\$5.12	
180 (7")	FS 180-22 CO-COOL 80	64178175	4007220697061	25	\$4.72	
180 (7")	FS 180-22 CO-COOL 120	64182175	4007220697085	25	\$4.64	

NEW
COMBICLICK®

The NEW way to GRIND & Finish Metal



- ✓ Save Time
- ✓ More Stock Removal
- ✓ Longer Life
- ✓ Less Heat
- ✓ Less Noise

Made In Germany

How It Works

1

The Backing Pad:

Either a hard, medium or soft option to suit grinding or finishing applications. A single pad suits both 115mm and 125mm grinders. 100mm & 180mm sizes also available.



2

The Mounting System:

At the centre of each pad is a rugged mounting fixture which secures the matching disc.



3

Click Fibre Disc in place:

The absence of a centre flange, enables flatter grinding & finishing, without a protruding flange causing scratches.



COMBICLICK®

Patented cooling & quick mounting system

Find Out More:

Call: **1300 0 PFERD**

Compared to standard fibre discs

- Up to 25% increased stock removal
- Up to 30% lower workpiece temperature
- Up to 30% longer service life
- Save time by up to 75% through fast disc change

Compared to standard grinding discs

- Greater user comfort
- Reduced stress on power tool
- Lower noise generation
- Less vibration

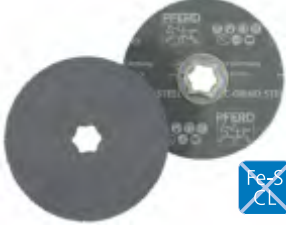
Try the
Combiclick®
STARTER PACK

125mm (5")

Contains:
x1 Grey Combiclick®
Backing Pad,
x2 CC Grind and x2 red
CO-COOL fibre discs.

75520200



Size mm	Description	Article No.	Barcode		List Price	Image
COMBICLICK® - Backing Pads						
Soft Backing Pads - General Purpose. Conforms to most workpiece shapes.						
100	Backing Pad CC-GT 100 M10	44890190	4007220836200	1	\$61.04	 Soft
115 & 125	Backing Pad CC-GT 115/125 M14 Suits both 4-1/2" and 5" Grinders (soft)	44890150	4007220725764	1	\$45.64	
180	Backing Pad CC-GT 180 M14	44890170	4007220725788	1	\$69.30	
180	Backing Pad CC-GT 180 5/8"	44890180	4007220725795	1	\$69.30	
Medium Backing Pads - General Purpose. Suits stock removal.						
115 & 125	Backing Pad CC GRIND-STEEL 115/125 M14 *	64199001	4007220835852	1	\$41.49	 Medium
115 & 125	Backing Pad CC GRIND-STEEL 115/125 5/8" * Suits both 4-1/2" and 5" Grinders (Medium)	64199011	4007220841402	1	\$48.75	
Hard Backing Pads - Provides stiffness for maximum stock removal.						
115 & 125	Backing Pad CC GRIND-INOX 115/125 M14 * Suits both 4-1/2" and 5" Grinders (Hard) * Recommended for use with CC-Grind Fibre Discs	64199002	4007220835869	1	\$41.49	 Hard
COMBICLICK® - CC-Grind						
COMBICLICK® - CC-Grind - Resin Fibre Grinding Discs						
115 (4 1/2")	CC-GRIND 115 STEEL/INOX	64183115	4007220835876	25	\$7.02	 
125 (5")	CC-GRIND 125 STEEL/INOX	64183125	4007220835883	25	\$7.56	
COMBICLICK® - Resin Fibre Discs						
COMBICLICK® - Aluminium Oxide Abrasive Fibre Discs						
100 (4")	CC-FS 100 A 36	64189001	4007220836095	25	\$3.42	 
100 (4")	CC-FS 100 A 60	64189003	4007220836118	25	\$2.52	
100 (4")	CC-FS 100 A 80	64189004	4007220836125	25	\$2.24	
100 (4")	CC-FS 100 A 120	64189005	4007220836132	25	\$2.24	
115 (4 1/2")	CC-FS 115 A 36	64190003	4007220763186	25	\$3.68	
115 (4 1/2")	CC-FS 115 A 60	64190006	4007220763209	25	\$2.88	
115 (4 1/2")	CC-FS 115 A 80	64190008	4007220763216	25	\$2.70	
115 (4 1/2")	CC-FS 115 A 120	64190012	4007220763223	25	\$2.70	
125 (5")	CC-FS 125 A 36	64190103	4007220721995	25	\$4.14	
125 (5")	CC-FS 125 A 60	64190106	4007220722039	25	\$3.38	
125 (5")	CC-FS 125 A 80	64190108	4007220722060	25	\$3.38	
125 (5")	CC-FS 125 A 120	64190112	4007220722077	25	\$3.38	
180 (7")	CC-FS 180 A 36	64190303	4007220722107	25	\$4.50	
180 (7")	CC-FS 180 A 60	64190306	4007220722138	25	\$4.04	
180 (7")	CC-FS 180 A 80	64190308	4007220722145	25	\$3.86	
180 (7")	CC-FS 180 A 120	64190312	4007220722152	25	\$3.86	
COMBICLICK® - Alu Oxide A-COOL Abrasive Fibre Discs						
115 (4 1/2")	CC-FS 115 A-COOL 120	64191012	4007220722213	25	\$3.38	 
115 (4 1/2")	CC-FS 115 A-COOL 220	64191022	4007220722244	25	\$3.38	
125 (5")	CC-FS 125 A-COOL 50	64191105	4007220722251	25	\$4.04	
125 (5")	CC-FS 125 A-COOL 120	64191112	4007220722312	25	\$3.86	
125 (5")	CC-FS 125 A-COOL 180	64191118	4007220722343	25	\$3.86	
125 (5")	CC-FS 125 A-COOL 220	64191122	4007220722367	25	\$3.86	
180 (7")	CC-FS 180 A-COOL 50	64191305	4007220722398	25	\$6.12	
180 (7")	CC-FS 180 A-COOL 60	64191306	4007220722411	25	\$5.84	
180 (7")	CC-FS 180 A-COOL 120	64191312	4007220722459	25	\$5.58	
180 (7")	CC-FS 180 A-COOL 180	64191318	4007220722527	25	\$5.58	

Size mm	Description		Article No.	Barcode		List Price	Image
COMBICLICK® - Resin Fibre Discs (continued)							
COMBICLICK® - Silicon Carbide SiC Abrasive Fibre Discs							
115 (4 1/2")	CC-FS 115 SiC 36	N!	64294003	4007220898888	25	\$3.50	
115 (4 1/2")	CC-FS 115 SiC 60	N!	64294006	4007220898895	25	\$2.80	
115 (4 1/2")	CC-FS 115 SiC 80	N!	64294008	4007220898901	25	\$2.50	
115 (4 1/2")	CC-FS 115 SiC 120	N!	64294012	4007220898918	25	\$2.50	
125 (5")	CC-FS 125 SiC 36	N!	64294103	4007220898925	25	\$3.70	
125 (5")	CC-FS 125 SiC 60	N!	64294106	4007220898932	25	\$3.00	
125 (5")	CC-FS 125 SiC 80	N!	64294108	4007220898949	25	\$3.00	
125 (5")	CC-FS 125 SiC 120	N!	64294112	4007220898956	25	\$3.00	
COMBICLICK® - Ceramic Abrasive Fibre Discs							
100 (4")	CC-FS 100 CO-COOL 36		64189101	4007220836149	25	\$6.30	
100 (4")	CC-FS 100 CO-COOL 60		64189103	4007220836187	25	\$4.22	
100 (4")	CC-FS 100 CO-COOL 80		64189104	4007220836194	25	\$3.86	
100 (4")	CC-FS 100 CO-COOL 120	N!	69401582	4007220892442	25	\$3.86	
115 (4 1/2")	CC-FS 115 CO-COOL 60		64193006	4007220763339	25	\$4.50	
115 (4 1/2")	CC-FS 115 CO-COOL 80		64193008	4007220763346	25	\$4.14	
115 (4 1/2")	CC-FS 115 CO-COOL 120		64193012	4007220763353	25	\$4.14	
125 (5")	CC-FS 125 CO-COOL 36		64193103	4007220722473	25	\$7.82	
125 (5")	CC-FS 125 CO-COOL 60		64193106	4007220722497	25	\$4.94	
125 (5")	CC-FS 125 CO-COOL 80		64193108	4007220722503	25	\$4.50	
125 (5")	CC-FS 125 CO-COOL 120		64193112	4007220722510	25	\$4.50	
180 (7")	CC-FS 180 CO-COOL 36		64193303	4007220722558	25	\$13.18	
180 (7")	CC-FS 180 CO-COOL 60		64193306	4007220722589	25	\$8.90	
180 (7")	CC-FS 180 CO-COOL 80		64193308	4007220722602	25	\$8.00	
180 (7")	CC-FS 180 CO-COOL 120		64193312	4007220722626	25	\$8.00	

**Try the
Combiclick®
STARTER PACK**



COMBICLICK® - Starter Packs						
100 (4")	Combiclick® Starter Pack	N! 75520199	4007220908471	1	\$71.00	
	Pack contains: x1 Black Combiclick® Backing Pad, x1 of each 36, 60 & 80 Grit Ceramic CO-COOL fibre discs					
125 (5")	Combiclick® Starter Pack	N! 75520200	4007220884591	1	\$63.90	
	Pack contains: x1 Grey Combiclick® Backing Pad, x2 CC Grind and x2 red CO-COOL fibre discs					

Size mm	Description	Article No.	Barcode		List Price	Image
CC-GRIND-SOLID						

NEW

CC-GRIND-SOLID



1

The disc:
Chose from either a steel or INOX disc that suits grinding on 115, 125 & 180mm grinders.

2

The Clamping Set:
Select the correct clamping flange set to suit the CC-GRIND-SOLID disc size.

Grinding Has Changed

CC-GRIND-SOLID - Discs						
115 (4½")	CC-GRIND-SOLID 115 SG STEEL	N!	64185115	4007220887059	10	\$7.40
125 (5")	CC-GRIND-SOLID 125 SG STEEL	N!	64185125	4007220887073	10	\$8.20
180 (7")	CC-GRIND-SOLID 180 SG STEEL	N!	64185180	4007220887080	10	\$14.90
115 (4½")	CC-GRIND-SOLID 115 SG INOX	N!	64186115	4007220900895	10	\$8.10
125 (5")	CC-GRIND-SOLID 125 SG INOX	N!	64186125	4007220900901	10	\$9.00
180 (7")	CC-GRIND-SOLID 180 SG INOX	N!	64186180	4007220900918	10	\$16.40
CC-GRIND-SOLID - Clamping Flange Set						
115 & 125	CC-GRIND-SOLID 115/125 M14	N!	33500015	4007220887578	1	\$9.90
180	CC-GRIND-SOLID 180 M14	N!	33500018	4007220887585	1	\$9.90
115 & 125	CC-GRIND-SOLID 115/125 5/8"	N!	33500115	4007220887592	1	\$9.90
180	CC-GRIND-SOLID 180 5/8"	N!	33500180	4007220887608	1	\$9.90



IMPORTANT - For optimum performance always use the CC-GRIND-SOLID discs with the matching clamping flange set shown above.



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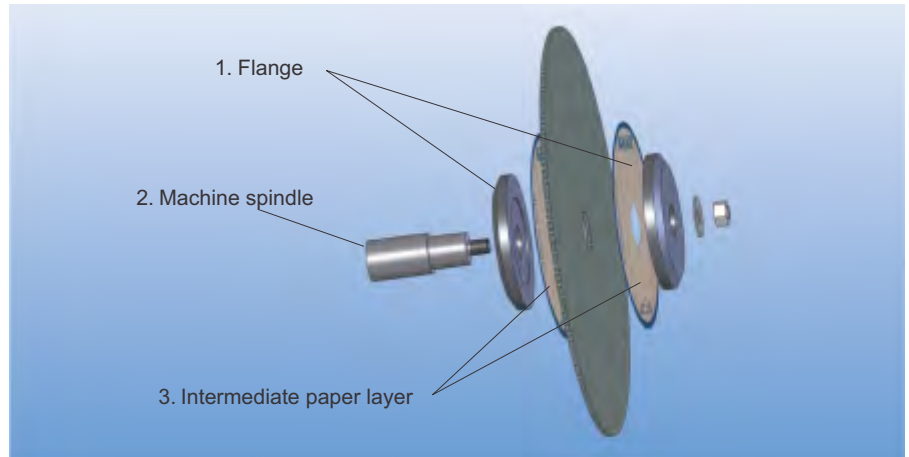
BEST
Performance

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Optimum clamping of cut-off wheels

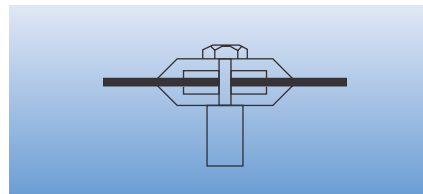
The prerequisite for optimum cut-off wheel performance is correct clamping. This is vital for protecting the user's safety. The adjacent figure shows the things to be observed:

1. Machine spindle with high concentricity,
 2. flanges of equal size and
 3. intermediate paper layers if required for secure clamping and safe usage.
- Our recommendations:
- Replace the intermediate paper layers after every second wheel change.
 - Always use intermediate paper layers with a disc diameter of > 400 mm.

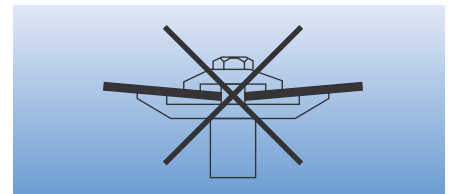


Please observe!

The use of flanges with two unequal diameters is not permitted. The clamping system must be regularly inspected. Both flanges, between which the grinding tool is mounted, must have the same diameter and the same contact surfaces (acc. to EN 60745-2-3:2007, AS 1788.1:1987, ANSI B7.1:2000).



Correct



Incorrect

Maximum operating speed

Max. operating speed	Colour bar
80 m/s	red
100 m/s	green

Safety standards

PFERD cut-off wheels conform to the highest quality and safety requirements and are marked according to EN 12413:2007 for grinding tools made of bonded abrasives.

PFERD is an oSa founding member

Together with other manufacturers, PFERD has undertaken voluntarily to produce quality tools conforming to the most exacting safety standards.

oSa member companies manufacture to the most stringent specifications worldwide and are committed to continuous product safety and quality monitoring.

PFERD tools carry the oSa mark.



Safety recommendations



= Wear eye protection!



= Wear gloves!



= Do not use if damaged!



= Wear hearing protection!



= Read the instructions!



= Not permitted for hand-held or manually guided grinding!



= Wear a respirator!

Storage of cut-off wheels

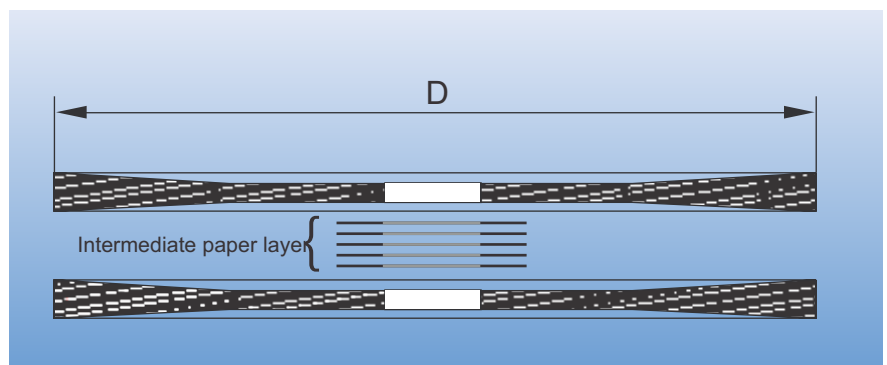
Please always store cut-off wheels horizontally in dry rooms.

An even load on a flat support is necessary to stop the cut-off wheels distorting.

Guideline on

storing tapered wheels (CT)

Tapered cut-off wheels must always be stacked with intermediate paper layers. Wheels must be subject to uniform loads and placed on a flat surface to prevent warping.



Stationary and Cutting Wheels

General Information

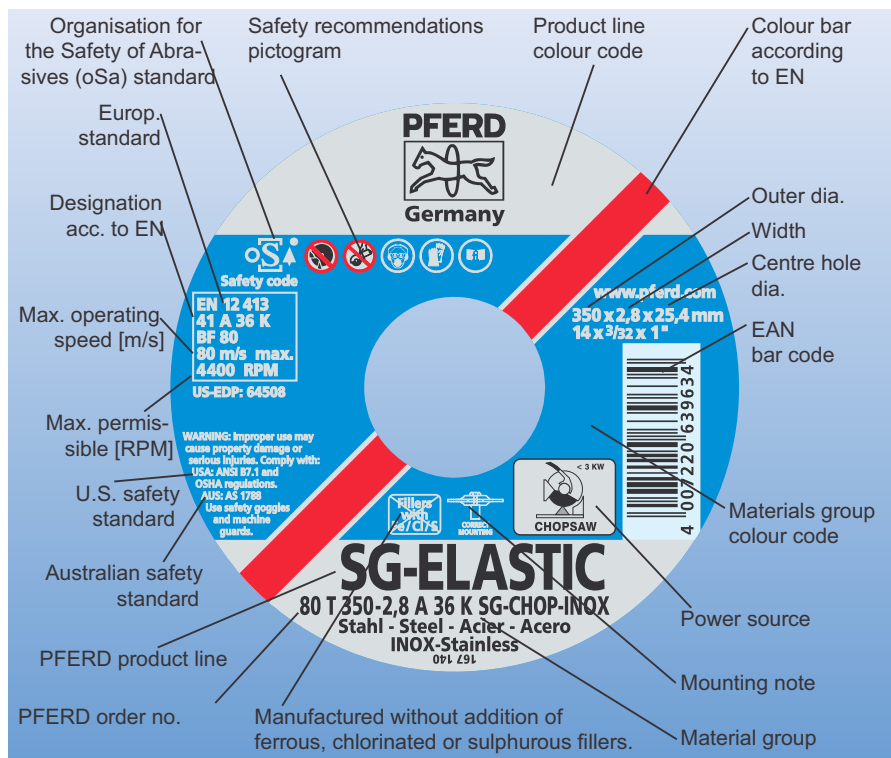


PFERD order no.
80 T 350-2,8 A 36 K SG-CHOP-INOX/25.4
1 2 3 4 5 6 7 8 9 10 11

- Maximum operating speed**
- Designation and shape of the tool**
T = Straight type
PT = Depressed centre type
CT = Tapered type
- Outer diameter**
Outer diameter D in [mm]
- Wheel thickness**
Thickness T/U in [mm]
- Abrasive**
A = Aluminium oxide
C = Silicon carbide
ZA = Zirconia alumina, aluminium oxide
- Grit size**
Grit size according to ISO 8486
- Hardness grade (wheel characteristics)**

Hardness grade	Wheel characteristics	Material groups
Performance line SG-ELASTIC (SG)		
H	Very soft	Steel, stainless steel (INOX)
K	Very soft	Steel, stainless steel (INOX)
L	Soft	Steel, cast iron, stone, plastics, non-ferrous metals
N	Soft	Steel
P	Medium-hard	Steel
O	Medium-hard	Steel, cast iron
Q	Medium-hard	Steel
R	Hard	Steel, cast iron
S	Hard	Steel
T	Very hard	Steel, cast iron

- PFERD product line**
Performance line SG-ELASTIC
- Product group**
CHOPSAW = for tool drives < 3 KW
TABLECUT = for tool drives 3-5 KW
UNIVERSAL = for tool drives > 5 KW
RAIL = for rails
HEAVY DUTY = for high output tool drives
LABOR = for laboratory samples
- Material group**
See also point 7
- Centre hole diameter**
Centre hole diameter H in [mm]



Designation according to EN 12413
41 A 36 K BF 80
1 2 3 4 5 6

- Type and shape of the wheel**
41 = Cut-off wheel, flat type
42 = Cut-off wheel, depressed centre type
- Abrasive**
A = Aluminium oxide
C = Silicon carbide
ZA = Zirconia alumina, aluminium oxide
- Grit size**
Grit size according to ISO 8486
- Hardness grade (wheel characteristics)**
The hardness grades are indicated using letters in alphabetical order starting with extremely soft through to the extremely hard (A to Z).
- Bond**
BF = Fibre-reinforced fabric in resinoid bond
- Max. operating speed in [m/s]**

Colour coding for the recommended materials to be ground

Performance line SG-ELASTIC (SG)	
Material = Colour	
	Steel black
	Steel/cast iron black/red
	Stainless steel (INOX) blue
	Stone green

PFERD advice and service

The large number of cutting problems requires detailed advice. PFERD provides this service upon request, free of charge and without any obligation on the part of the customer. Our advice does not only extend to the selection of the right PFERD cut-off wheel, but also addresses equipment improvement aspects, e.g. with relation to extractor systems, work-piece feeding devices, clamping, etc.

Years of experience gathered by our technical customer service and our research department ensure quick and professional advice when solving cutting problems.

Due to the excellent contacts formed by our development department to cut-off wheel machine manufacturers both in this country and abroad, we are also able to advise you on the layout of appropriate automatic equipment.



PRODUCT DESCRIPTION	PAGE	PRODUCT DESCRIPTION	PAGE	PRODUCT DESCRIPTION	PAGE
Low Speed Stationary Cutting Wheels - 80 mtr/sec	87	Premium Heavy Duty (Saws 3-5kW)	87	High Speed Portable Cutting Wheels - Steel	88
General Purpose - Steel	87	High Speed Stationary Cutting Wheels - 100 mtr/sec	87	High Speed Portable Cutting Wheels - Stone	88
Premium - Steel	87	High Speed Premium - Heavy Duty	87	High Speed Rail Cutting Wheels - Steel	88
Premium - INOX	87	High Speed Portable Cutting Wheels	88		

Size mm/in	Description	Article No.	Barcode		List Price ea. \$	Image
Low Speed Stationary Cutting Wheels - 80mtr/sec To suit 240v Chop Saws						Chopsaw<5kW
General Purpose - Steel						
300 (12")	PCM300/25.4 *	69900113	4007220817261	25	\$8.86	
400 (16")	PCM400/25.4 *	69900115	4007220817285	25	\$13.44	
300 (12")	80 T 300-2.8 A 36 K PSF-CHOP 25.4	66323074	4007220832264	20	\$8.86	
350 (14")	80 T 350-2.8 A 36 K PSF-CHOP 25.4	66323574	4007220817605	10	\$8.96	
400 (16")	80 T 400-3.8 A 36 K PSF-CHOP 25.4	66324095	4007220832271	10	\$13.44	
Premium - Steel						
300 (12")	80 T 300-2.8 A 36 K SG-CHOP 25.4	66323070	4007220629123	20	\$15.78	
350 (14")	80 T 350-2.8 A 36 K SG-CHOP 25.4	69620704	4007220644706	25	\$9.98	
400 (16")	80 T 400-3.8 A 36 K SG-CHOP 25.4	66324093	4007220638675	10	\$23.11	
Premium - INOX						
300 (12")	80 T 300-2.8 A 36 K SG-CHOP-INOX 25.4	69620725	4007220709924	25	\$13.29	
350 (14")	80 T 350-2.8 A 36 K SG-CHOP-INOX 25.4	69620717	4007220654156	25	\$12.27	
400 (16")	80 T 400-2.8 A 36 K SG-CHOP-INOX 25.4	66324091	4007220669303	10	\$27.75	
400 (16")	80 T 400-3.8 A 36 K SG-CHOP-INOX 25.4	69620735	4007220739891	10	\$27.75	
Premium - Heavy Duty (Saws 3-5kW) - 80 mtr/sec						TableCut 3-5kW
350 (14")	80 T 350-3.0 A 30 L SG-TABLE 25.4	66323580	4007220629130	10	\$17.00	
400 (16")	80 T 400-4.0 A 30 L SG-TABLE 25.4	66324080	4007220638682	10	\$24.24	
High Speed Stationary Cutting Wheels - 100 mtr/sec To suit 3 Phase Saws						
High Speed Premium - Heavy Duty						
300 (12")	100 T 300-3.6 A 24 Q SG-HD 25.4	66323024	4007220334904	20	\$11.56	
300 (12")	100 T 300-3.8 A 30 O SG-UNI 25.4	66323113	4007220721230	20	\$25.35	
350 (14")	100 T 350-4.0 A 24 Q SG-HD 25.4	66323730	4007220332566	10	\$14.56	
400 (16")	100 T 400-4.8 A 24 Q SG-HD 25.4	66325825	4007220355374	10	\$24.64	
400 (16")	100 T 400-4.6 A 24 S SG-HD 40.0	66324140	4007220166314	10	\$62.36	
500 (20")	100 T 500-5.8 A 24 Q SG-HD 40.0	66325205	4007220539897	5	\$149.16	
600 (24")	100 T 600-8.2 A 24 Q SG-HD 60.0	66397706	4007220166482	5	\$163.93	

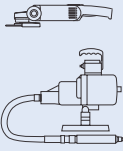
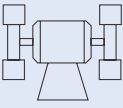
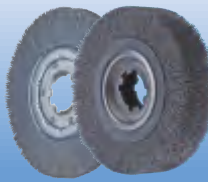
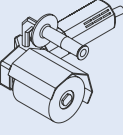
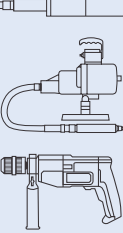
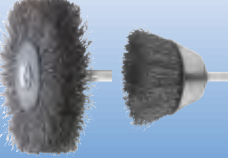
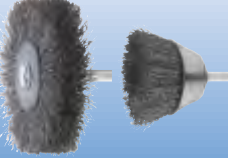
* Discontinued - Available Only While Stocks Last

Size mm/in	Description	Article No.	Barcode		List Price ea. \$	Image
High Speed Portable Cutting Wheels To suit Portable Engine Driven Saws						 
High Speed Portable Cutting Wheels - Steel						
300 (12")	100 EHT 300-4.0 A 24 R SG 20.0	61329120	4007220540008	20	\$12.27	
300 (12")	100 EHT 300-4.0 A 24 R SG 22.2	61329122	4007220540015	20	\$12.27	
300 (12")	100 EHT 300-4.0 A 24 R SG 25.4	61329125	4007220540022	20	\$12.27	
350 (14")	100 EHT 350-4.5 A 24 R SG 20.0	61329520	4007220540039	10	\$18.47	
350 (14")	100 EHT 350-4.5 A 24 R SG 22.2	61329522	4007220540046	10	\$18.47	
350 (14")	100 EHT 350-4.5 A 24 R SG 25.4	61329525	4007220540053	10	\$18.47	
400 (16")	100 EHT 400-4.8 A 24 R SG 22.2	61329822	4007220540060	10	\$33.04	
400 (16")	100 EHT 400-4.8 A 24 R SG 25.4	61329825	4007220540077	10	\$33.04	
High Speed Portable Cutting Wheels - Stone						 
300 (12")	100 EHT 300-4.0 C 24 R SG 20.0	69198019	4007220329139	20	\$12.27	
300 (12")	100 EHT 300-4.0 C 24 R SG 22.2	69198020	4007220329146	20	\$12.27	
300 (12")	100 EHT 300-4.0 C 24 R SG 25.4	69198021	4007220329153	20	\$12.27	
350 (14")	100 EHT 350-4.5 C 24 R SG 20.0	61629520	4007220540145	10	\$19.71	
350 (14")	100 EHT 350-4.5 C 24 R SG 22.2	61629522	4007220540152	10	\$19.71	
350 (14")	100 EHT 350-4.5 C 24 R SG 25.4	61629525	4007220540169	10	\$19.71	
400 (16")	100 EHT 400-4.8 C 24 R SG 20.0	69198086	4007220575741	10	\$33.49	
High Speed Rail Cutting Wheels - Steel For use on Railway Line						 
350 (14")	100 T 350-3.8 A 24 N SG-RAIL 25.4	66323673	4007220539781	10	\$22.00	
350 (14")	100 T 350-4.2 A 24 Q SG-RAIL 25.4	69902069	4007220662175	10	\$22.40	
400 (16")	100 T 400-4.2 A 24 Q SG-RAIL 25.4	69902421	4007220866153	10	\$46.84	

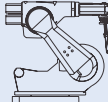
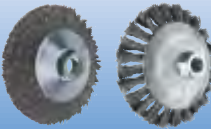
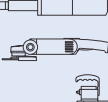
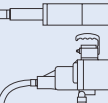
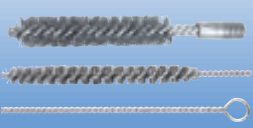
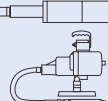
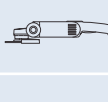
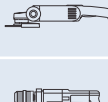
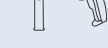


Tool drive

PFERD industrial power brushes are quality products for surface machining. We offer a diverse range of high quality brushes for professional machining of various materials and applications.

		Wheel brushes with arbor hole ■ Performance line SG ■ Special line SGP
		Wheel brushes for angle grinders ■ Performance line SG
		Wheel brushes pipeline ■ Performance line SG ■ Special line SGP
		Wheel brushes deburring brushes ■ Performance line SG
		Wheel brushes for stationary use ■ Performance line SG
		Wheel brushes for burnishing machines ■ Performance line SG
		Mounted pencil brushes ■ Performance line SG ■ Special line SGP
		Mounted wheel brushes ■ Performance line SG
		Mounted cup brushes ■ Performance line SG

Tool drive

		Cup brushes with threaded hole ■ Performance line SG ■ Special line SGP	
		Flaring cup brushes with threaded hole ■ Performance line SG ■ Special line SGP	
		Disc brushes ■ Performance line SG	
		Brushes INOX-TOTAL ■ Special line SGP (available on request)	
		Interior brushes ■ Performance line SG	
		Scratch brushes ■ Performance line SG	
		Brush sets Adapters and accessories	
	Manual applications		Drum grinders
	Straight grinders		Flexible shaft drives
	Angle grinders		Stationary applications
	Power drills		Robot applications



PFERD – Your partner for safe tools

PFERD industrial power brushes meet a high quality and safety standard which is constantly being inspected and further developed in our own laboratories. As one of the leading manufacturers of brush tools, PFERD fulfils the requirements of European standard EN 1083.

Never exceed the permitted maximum RPM

In order to guarantee operating safety, the maximum permitted RPM written either on the brush, the label and in the catalogue must never be exceeded!

Please observe the following before use:
The tool drive speed must not exceed the maximum permissible brush speed.
Please refer to our PFERD Tool Manual 21 for more details.

Read the safety recommendations!

Technical brushes must be used in a proper manner. For this reason, guidelines on the safe and economic use of PFERD brushes are in every packaging unit. They advise you how to increase your personal work safety.



= Wear gloves!



= Wear a respirator!



= Read the instructions!



= Wear hearing protection!



= Wear eye protection!

Use a protective machine cover!

Standard INOX wire qualities

AISI	Short no. acc. to EN 10027-1	Material no. acc. to EN 10027-2
304	X5CrNi18-10	1.4301 (V2A)
301	X10CrNi18-8 (current standard)	1.4310 (V2A)
302	X12CrNi 17-7 (previous standard)	1.4310 (V2A)
316	X5CrNiMo17-12-2	1.4401 (V4A)
316	X3CrNiMo17-13-3	1.4436 (V4A)
316Ti	X6CrNiMoTi17-12-2	1.4571 (V4A)

Note

To avoid possible problems, it makes sense to run preliminary tests to check the corrosion-resistance of the workpiece.

Finishing

General cleaning of the workpieces after brushing is recommended to prevent loose particles sticking to the workpiece.
For workpieces that are used in a heavily corrosive environment, processing with grinding tools or etching or passivation is recommended. This also applies when not only stainless steels but also non-alloyed steels are processed and it cannot be completely ruled out that particles will land on the stainless steel.

Avoiding corrosion when brushing INOX components

Cause of corrosion	Solution
Structure changes through toothing heat build-up	Avoid the heat build-up through: ■ Use of a lower speed ■ Reduction in brushing pressure ■ Oscillating brushing
Apart from the trim all other brush parts are generally made of steel, (exception: INOX-TOTAL brush types), corrosion can occur through contact between these parts with the workpiece	■ Use INOX-TOTAL type brushes. ■ Avoid contact between the side discs and workpiece ■ Use pencil brushes with plastic coatings
Using the same tool for work on steel and INOX	■ Do not use brushes which have already been used on steel, copper or other metals ■ Do not process steel near INOX
Wire particle residues in the surface (crack corrosion)	■ Avoid a high brushing pressure ■ Select a low speed
Material removal rate is too low	Complete removal of structural changes by: ■ Extending brushing times ■ Using grinding tools

Recommendation for use

Brush diameter

With hand-held tool drives, the brush diameter should never exceed 180 mm, regardless of the fill material.

Contact pressure and work position



incorrect (1)



correct (2)

Abrasion is done by the filament tips (fig. 2).

Exception:

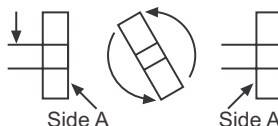
Brushes with SiC fill: approx. 2-3 mm of the filament tips grind. When using brushes on stationary machines, always operate below the brush centre line (see fig. 2).

Visible trim lengths

Short filaments give a stiffer fill surface, resulting in more aggressive brushing action. Longer filaments are more flexible, giving a softer brush performance that produces a more uniform finish, even on non-homogeneous surfaces.

Self-sharpening effect

Output shaft



The self-sharpening effect can be improved by changing the brush operating direction.

Filament diameter

General rule:

Thicker filament = aggressive, powerful brushing action

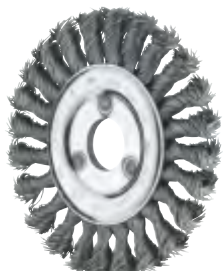
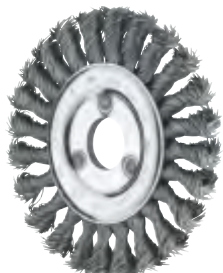
Thinner filament = soft brushing action, finer surface finish

On a brush with thicker filaments, fewer filament ends are in contact with the workpiece surface at the same time. This results in a more aggressive brushing action and coarser surface finish. With thinner filaments, many filament ends are in contact. The result is a softer brushing action and finer surface finish. Generally, finer filament is more flexible and ensures a longer brush life.

PRODUCT DESCRIPTION	PAGE	PRODUCT DESCRIPTION	PAGE	PRODUCT DESCRIPTION	PAGE
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Twist Knot - Steel Wire	92	Twist Knot - Stainless Steel (INOX) Wire - COMBITWIST®	93	Crimped Stainless Steel (INOX) Wire with Limiting Rings	95
Twist Knot - Stainless Steel (INOX) Wire	92	Flared Cup Brush - Twist Knot COMBITWIST®	94	Twist Knot Steel Wire	95
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Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Shaft Mounted Wheel Brushes						
Crimped Steel Wire						
20 x 4	RBU 2004/6 ST 0.20	43101001	4007220152980	10	\$8.40	
30 x 6	RBU 3006/6 ST 0.20	43102001	4007220153017	10	\$6.92	
40 x 9	RBU 4009/6 ST 0.20	43103001	4007220153048	10	\$8.98	
50 x 15	RBU 5015/6 ST 0.20	43104001	4007220153079	10	\$9.66	
60 x 15	RBU 6015/6 ST 0.20	43104011	4007220658437	10	\$11.08	
70 x 10	RBU 7010/6 ST 0.30	43104101	4007220658444	10	\$8.98	
70 x 15	RBU 7015/6 ST 0.30	43105001	4007220153109	10	\$10.42	
80 x 15	RBU 8015/6 ST 0.30	43106001	4007220153130	10	\$12.02	
100 x 10	RBU 10010/6 ST 0.30	43109001	4007220658451	10	\$12.48	
						
Crimped Stainless Steel (INOX) Wire						
30 x 6	RBU 3006/6 INOX 0.20	43102003	4007220153031	10	\$8.60	
40 x 9	RBU 4009/6 INOX 0.20	43103003	4007220153062	10	\$11.46	
50 x 15	RBU 5015/6 INOX 0.20	43104003	4007220153093	10	\$16.68	
60 x 15	RBU 6015/6 INOX 0.20	43104033	4007220658468	10	\$17.64	
70 x 10	RBU 7010/6 INOX 0.20	43104102	4007220597835	10	\$17.64	
70 x 15	RBU 7015/6 INOX 0.30	43105003	4007220153123	10	\$17.64	
80 x 10	RBU 8010/6 INOX 0.20	43105103	4007220578919	10	\$20.74	
80 x 15	RBU 8015/6 INOX 0.30	43106003	4007220153154	10	\$20.74	
100 x 10	RBU 10010/6 INOX 0.30	43109003	4007220658475	10	\$22.80	
Brass & Plastic (SiC) Wire						
80 x 15	RBU 8015/6 MES 0.30	43106002	4007220153147	10	\$27.50	
50 x 15	RBU 5015/6 SiC 180 0.90	43104004	4007220220610	10	\$23.94	
70 x 15	RBU 7015/6 SiC 180 0.90	43105004	4007220220627	10	\$25.92	
80 x 15	RBU 8015/6 SiC 180 0.90	43106004	4007220220634	10	\$27.98	

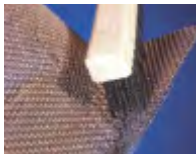
Size mm	Description		Article No.	Barcode		List Price ea. \$	Image	
Shaft Mounted Wheel Brushes								
Twist Knot - Steel Wire								
70 x 6	RBG 7006/6 ST 0.35		43107001	4007220153161	10	\$15.28		
70 x 12	RBG 7012/6 ST 0.35		43107011	4007220658482	10	\$15.58		
100 x 12	RBG 10012/6 ST 0.35		43108001	4007220530351	10	\$31.08		
100 x 12	RBG 10012/6 ST 0.50		43108002	4007220530399	10	\$29.10		
Twist Knot - Stainless Steel (INOX) Wire								
70 x 6	RBG 7006/6 INOX 0.35		43107003	4007220220641	10	\$30.86		
Crimped - Steel Wire								
95 x 10	KBU 9510/6 ST 0.30 SG	N!	43312501	4007220899397	10	\$17.90		
Crimped - Stainless Steel (INOX) Wire								
95 x 10	KBU 9510/6 INOX 0.30 SG	N!	43312503	4007220899403	10	\$29.20		
Encapsulated Steel Wire								
63 x 7	RBV 6307/6 ST 0.30		43507501	4007220220955	10	\$24.90		
Shaft Mounted Cup Brushes								
Crimped Steel Wire								
50 x 10	TBU 5010/6 ST 0.30		43210001	4007220153345	10	\$9.86		
60 x 15	TBU 6015/6 ST 0.30		43211001	4007220153352	10	\$12.48		
Wheel Brushes to suit Angle Grinders - M14 thread								
Crimped Steel Wire								
125	RBU 12512/M14 ST 0.30 SG		43502301	4007220806975	1	\$53.42		
Wheel Brushes with Arbor Hole								
Crimped Steel Wire								
150 x 12	RBU 15012/22.2 ST 0.25 ^P		43505005	4007220530412	1	\$27.00		
200 x 16	RBU 20016/22.2 ST 0.25 ^P		43506005	4007220530436	1	\$39.44		
250 x 20	RBU 25020/22.2 ST 0.25 ^P		43506505	4007220530443	1	\$56.48		
100 x 28	RBU 10028/14.0 ST 0.30		43502001	4007220153604	1	\$26.88		
150 x 25	RBU 15025/25.4 ST 0.30 (Inc. Adaptor Set)		43505101	4007220658727	1	\$30.12		
200 x 25	RBU 20025/25.4 ST 0.30 (Inc. Adaptor Set)		43506101	4007220658765	1	\$47.72		
200 x 38	RBU 20038/AK 32.2 ST 0.30		43506001	4007220153635	1	\$76.22		
	^P All brushes with a 22.2mm bore require an AK32 Adapter Set to change hole diameter.							
Crimped Stainless Steel (INOX) Wire								
150 x 25	RBU 15025/AK 32.2 INOX 0.30 SG		43505102	4007220658789	1	\$68.42		
200 x 25	RBU 20025/AK 32.2 INOX 0.30 SG		43506102	4007220658895	1	\$120.16		
Plastic SiC Filament								
200 x 16	RBU 20016/22.2 SiC 80 0.90 [*]		43506007	4007220530474	1	\$126.50		
	[*] All brushes with a 22.2mm bore require an AK32 Adapter Set to change hole diameter.							
Wheel Brush Accessories - Hub Adapters								
	ADAPTERSET APM 50.8/16-20	N!	43690035	4007220900376	1	\$23.20		
	ADAPTERSET APM 50.8/22,2-30	N!	43690036	4007220900390	1	\$23.20		
	ADAPTERSET APM 50.8/32-40	N!	43690037	4007220900406	1	\$23.20		
	Adapter AM 51/32.0		43690032	4007220606605	1	\$4.12		
	AK 51 Adapter Set		43690110	4007220608609	1	\$6.30		
	AK 32 Adapter Set		43690100	4007220608593	1	\$8.18		
	AK 32-2 Adapter Set		43690102	4007220806890	1	\$10.30		

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Wheel Brushes with Arbor Hole (continued)						
Stationary Twist Knot - Steel Wire						
150 x 16	RBG 15016 T/22.2 ST	43309005	4007220530795	1	\$41.42	
200 x 16	RBG 20016 T/22.2 ST	43310001	4007220530801	1	\$55.94	
250 x 19	RBG 25019 T/22.2 ST	43311001	4007220530818	1	\$68.42	
Wheel Brushes with Arbor / Threaded Hole						
Twist Knot - Steel Wire - Pipeliner						
125 x 6	RBG 12506/22.2 Pipe ST 0.50	43302501	4007220750957	10	\$39.44	
125 x 6	RBG 12506/M14 Pipe ST 0.50	43302502	4007220750995	10	\$39.44	
150 x 6	RBG 15006/22.2 Pipe ST 0.50	43303501	4007220751015	10	\$44.60	
150 x 6	RBG 15006/M14 Pipe ST 0.50	43303502	4007220751022	10	\$44.60	
178 x 6	RBG 17806/22.2 Pipe ST	43303804	4007220751107	10	\$61.66	
178 x 6	RBG 17806/M14 Pipe ST	43303805	4007220751114	10	\$61.66	
Twist Knot - Stainless Steel (INOX) Wire - Pipeliner						
125 x 6	RBG 12506/M14 Pipe INOX 0.50	43302507	4007220751343	1	\$50.78	
150 x 6	RBG 15006/M14 Pipe INOX 0.50	43309002	4007220530559	1	\$57.54	
Twist Knot - Steel Wire						
100 x 12	RBG 10012/M14 ST 0.50	43302000	4007220658970	1	\$21.84	
115 x 12	RBG 11512/22.2 ST 0.50	43312001	4007220153512	1	\$21.84	
115 x 12	RBG 11512/M14 ST 0.50	43312002	4007220658987	1	\$21.84	
125 x 12	RBG 12512/22.2 ST 0.50	43303005	4007220530597	1	\$23.94	
125 x 12	RBG 12512/M14 ST 0.50	43303013	4007220658994	1	\$24.90	
150 x 13	RBG 15013/22.2 ST 0.60	43309015	4007220597996	1	\$29.10	
178 x 13	RBG 17813/22.2 ST 0.50	43304001	4007220153413	1	\$32.18	
178 x 13	RBG 17813/M14 ST 0.50	43304009	4007220659007	1	\$32.18	
Twist Knot - Stainless Steel (INOX) Wire						
115 x 12	RBG 11512/22.2 INOX 0.35	43312003	4007220220795	1	\$42.50	
115 x 12	RBG 11512/M14 INOX 0.35	43312004	4007220659014	1	\$42.50	
125 x 12	RBG 12512/22.2 INOX 0.35	43303006	4007220530788	1	\$51.78	
125 x 12	RBG 12512/M14 INOX 0.35	43303007	4007220659021	1	\$51.78	
178 x 13	RBG 17813/22.2 INOX 0.35	43304003	4007220220733	1	\$102.52	
178 x 13	RBG 17813/M14 INOX 0.35	43304010	4007220659038	1	\$102.52	
Twist Knot - Steel Wire COMBITWIST®						
115 x 12	RBG 11512/22.2 CT ST 0.5	43312011	4007220593356	1	\$23.94	
125 x 12	RBG 12512/22.2 CT ST 0.5	43303010	4007220593363	1	\$27.00	
178 x 13	RBG 17813/22.2 CT ST 0.5	43304011	4007220593370	1	\$35.74	
178 x 13	RBG 17813/22.2 CT ST 0.8	43304017	4007220593394	1	\$34.28	
Twist Knot - Stainless Steel (INOX) Wire COMBITWIST®						
115 x 12	RBG 11512/22.2 CT INOX 0.35	43312013	4007220593400	1	\$46.62	
125 x 12	RBG 12512/22.2 CT INOX 0.35	43303011	4007220593417	1	\$56.96	
178 x 13	RBG 17813/22.2 CT INOX 0.35	43304013	4007220593424	1	\$112.90	
COMBITWIST® 						

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Flared Cup Brushes - Twist Knot COMBITWIST®						 COMBITWIST® 
Twist Knot - Steel Wire COMBITWIST®						
100 x 13	KBG 10013/M14 CT ST 0.50	43313011	4007220593431	1	\$24.90	
115 x 15	KBG 11515/M14 CT ST 0.50	43315011	4007220593448	1	\$32.18	
125 x 15	KBG 12515/M14 CT ST 0.50	43317011	4007220593455	1	\$37.34	
Twist Knot - Stainless Steel (INOX) Wire COMBITWIST®						
100 x 13	KBG 10013/M14 CT INOX	43313013	4007220593462	1	\$39.44	
115 x 15	KBG 11515/M14 CT INOX	43315013	4007220593479	1	\$43.56	
125 x 15	KBG 12515/M14 CT INOX	43317013	4007220593486	1	\$58.04	
Flared Cup Brushes - Crimped						
Crimped Steel Wire						
100 x 10	KBU 10010/M14 ST 0.35	43316001	4007220220832	1	\$20.74	
Crimped Stainless Steel (INOX) Wire						
100 x 10	KBU 10010/M14 INOX 0.35	43316003	4007220531129	1	\$32.76	
Flared Cup Brushes - Twist Knot						
100 x 13	KBG 10013 M10 x 1.5	79182207	697940822078	1	\$22.80	
Cup Brushes - Crimped Steel Wire						
60	TBU 60/M14 ST 0.30	43468902	4007220153543	1	\$17.64	
60	TBU 60/M10x1.50 ST 0.30	47701482	4007220826003	1	\$17.64	
75	TBU 75/M14 ST 0.30	43469001	4007220220849	1	\$23.94	
100	TBU 100/M14 ST 0.30	43469102	4007220153574	1	\$32.18	
Cup Brushes - Crimped Stainless Steel (INOX) Wire						
75	TBU 75/M14 INOX 0.30	43469003	4007220220856	1	\$29.10	
100	TBU 100/M14 INOX 0.30	43469103	4007220220863	1	\$58.64	
Cup Brushes - Twist Knot Steel Wire						
65	TBG 65/M14 ST 0.35	43305002	4007220153437	1	\$16.68	
65	TBG 65/M10x1.50 ST 0.35	47701479	4007220825976	1	\$16.68	
80	TBG 80/M14 ST 0.50	43306001	4007220153482	1	\$31.08	
100	TBG 100/M14 ST 0.50	43308001	4007220153505	1	\$39.44	
125	TBG 125/M14 ST 0.50	47700050	4007220816936	1	\$67.28	
Cup Brushes - Twist Knot Stainless Steel Wire						
65	TBG 65/M14 INOX 0.35	43305003	4007220220740	1	\$32.18	
65	TBG 65/M10x1.50 INOX 0.35	43305012	4007220659144	1	\$32.18	
80	TBG 80/M14 INOX 0.35	43306033	4007220806678	1	\$72.45	
100	TBG 100/M14 INOX 0.35	43308033	4007220806685	1	\$82.82	
Cup Brush - Composite Silicon Carbide Fill						
75	DBUR 75/M14 REC SiC 80 1,14 SG	N! 43400003	4007220899373	1	\$167.10	

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Shaft Mounted Pencil Brushes						
Crimped Steel Wire						
10 x 10	PBU 1010/6 ST 0.35	43204001	4007220153277	10	\$6.30	
12 x 12	PBU 1212/6 ST 0.35	43204101	4007220562581	10	\$6.84	
15 x 16	PBU 1516/6 ST 0.20	43203005	4007220530894	10	\$6.60	
15 x 16	PBU 1516/6 ST 0.35	43203001	4007220153253	10	\$7.30	
20 x 20	PBU 2020/6 ST 0.20	43202005	4007220530900	10	\$8.60	
20 x 20	PBU 2020/6 ST 0.50	43202001	4007220153222	10	\$8.44	
30 x 29	PBU 3029/6 ST 0.50	43201001	4007220153192	10	\$11.46	
Crimped Stainless Steel (INOX) Wire						
10 x 10	PBU 1010/6 INOX 0.35	43204003	4007220153291	10	\$8.18	
12 x 12	PBU 1212/6 INOX 0.35	43204103	4007220562604	10	\$8.90	
15 x 16	PBU 1516/6 INOX 0.40	43203003	4007220153260	10	\$9.86	
20 x 20	PBU 2020/6 INOX 0.50	43202003	4007220153246	10	\$11.46	
30 x 29	PBU 3029/6 INOX 0.50	43201003	4007220153215	10	\$17.64	
Crimped Brass Wire						
20 x 20	PBU 2020/6 MES 0.50	43202002	4007220153239	10	\$11.46	
SINGLETWIST® Knot - Steel Wire						
10 x 10	PBGS 1010/6 ST 0.20	43218001	4007220659267	10	\$8.90	
10 x 10	PBGS 1010/6 ST 0.35	43218002	4007220659274	10	\$8.90	
10 x 10	PBGS 1010/6 ST 0.50	43218003	4007220659281	10	\$8.90	
SINGLETWIST® Knot - Stainless Steel (INOX) Wire						
10 x 10	PBGS 1010/6 INOX 0.20	43218005	4007220659298	10	\$9.96	
10 x 10	PBGS 1010/6 INOX 0.35	43218006	4007220659304	10	\$9.96	
10 x 10	PBGS 1010/6 INOX 0.50	43218007	4007220659311	10	\$9.96	
Crimped - Steel Wire with Limiting Rings						
12 x 12	PBUR 1212/6 ST 0.20	43212001	4007220530962	10	\$10.42	
25 x 25	PBUR 2525/6 ST 0.20	43214001	4007220531006	10	\$15.58	
Crimped - Stainless Steel (INOX) Wire with Limiting Rings						
20 x 20	PBUR 2020/6 INOX 0.20	43213004	4007220531037	10	\$16.67	
Twist Knot - Steel Wire						
19 x 19	PBG 1919/6 ST 0.50	43207005	4007220531051	10	\$25.92	
25 x 25	PBG 2525/6 ST 0.50	43209002	4007220531075	10	\$27.00	
Twist Knot - Stainless Steel (INOX) Wire						
19 x 19	PBG 1919/6 INOX 0.60	43207007	4007220531082	10	\$31.08	
25 x 25	PBG 2525/6 INOX 0.60	43209005	4007220531105	10	\$32.18	
Encapsulated Steel Wire						
22 x 22	PBV 2222/6 ST 0.25	43208001	4007220153321	10	\$33.14	
Poliscratch Brush						
100 x 20	POS RBU 10020/M14 SC ST 0,60 SG	N! 43502102	4007220892459	1	\$68.20	
	ARBOR TO SUIT BO 8/M14	N! 43595014	4007220900482	1	\$15.80	



Size mm	Description	Article No.	Barcode		List Price ea. \$	Image	
Hand Scratch & Miscellaneous Brushes							
Hand Scratch Brushes - Steel Wire							
1 ROW	HBU 10 ST 0.35	43670011	4007220659489	10	\$2.72		
3 ROW	HBU 30 ST 0.35	43672001	4007220572207	10	\$2.72		
4 ROW	HBU 40 ST 0.35	43673001	4007220572214	10	\$3.10		
5 ROW	HBU 50 ST 0.35	43670001	4007220153741	10	\$3.20		
Hand Scratch Brushes - Stainless Steel (INOX) Wire							
1 ROW	HBU 10 INOX 0.30	43670013	4007220659496	10	\$6.08		
2 ROW	HBU 20 INOX 0.30	43671003	4007220572221	10	\$6.22		
3 ROW	HBU 30 INOX 0.30	43672003	4007220572238	10	\$6.84		
4 ROW	HBU 40 INOX 0.30	43673003	4007220572245	10	\$7.82		
5 ROW	HBU 50 INOX 0.30	43670003	4007220572252	10	\$8.90		
Hand Scratch Brushes - Steel Wire - Long Handle							
3 ROW	HBU 30 ST LH 0.35	43672011	4007220616840	10	\$4.24		
4 ROW	HBU 40 ST LH 0.35	43673011	4007220616857	10	\$5.00		
Hand Scratch Brushes - Converged Steel Wire							
3 ROW	HBK 30 ST 0.35	43676001	4007220572481	10	\$7.82		
Hand Scratch Brushes - Converged Stainless Steel (INOX) Wire							
3 ROW	HBK 30 INOX 0.35	43676003	4007220572498	10	\$12.98		
Hand Scratch Brushes - Plastic Handle - Curved Type							
	HBG 10 ST 0.30 Steel	43660001	4007220153727	10	\$8.44		
	HBG 10 INOX 0.30 Stainless Steel	43662003	4007220153734	10	\$15.58		
	HBG 10 MES 0.30 Brass	43662002	4007220572672	10	\$15.58		
Block Brushes							
	HBB 50 ST Violin 0.35 Steel	43678001	4007220572504	10	\$4.24		
File Cleaning Brushes							
	HBF 10 ST 0.15 Steel	12601000	4007220015315	5	\$6.88		

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Individual Point Of Sale Range						
Twist Knot Wire						
19 x 19	POS PBG 1919/6 ST 0.35 SG	43706001	4007220532416	1	\$21.90	 POS
25 x 25	POS PBG 2525/6 ST 0.30 SG	43706005	4007220532423	1	\$26.00	
19 x 19	POS PBG 1919/6 INOX 0.35 SG	43706002	4007220532430	1	\$33.60	
25 x 25	POS PBG 2525/6 INOX 0.30 SG	43706006	4007220532447	1	\$36.80	
Pencil Crimped Wire						
15	POS PBU 1516/6 ST 0.35 SG	43704001	4007220532256	1	\$5.66	 POS
20	POS PBU 2020/6 ST 0.50 SG	43704005	4007220532263	1	\$7.34	
15	SB PBU 1516/6 INOX 0.40	43704002	4007220532287	1	\$8.78	
20	SB PBU 2020/6 INOX 0.50	43704006	4007220532294	1	\$12.44	
Shaft Mounted Twist Knot Wire						
70	POS RBG 7006/6 ST 0.35 SG	43702001	4007220531969	1	\$15.40	 POS
70	POS RBG 7006/6 INOX 0.35 SG	43702002	4007220531976	1	\$26.20	
Shaft Mounted Crimped Steel Wire						
30 x 6	POS RBU 3006/6 ST 0.20 SG	43701005	4007220531808	1	\$8.10	 POS
50 x 15	POS RBU 5015/6 ST 0.20 SG	43701013	4007220531822	1	\$11.10	
70 x 15	POS RBU 7015/6 ST 0.30 SG	43701017	4007220894606	1	\$11.40	
100 x 10	POS RBU 10010/6 ST 0.30 SG	43701018	4007220894613	1	\$14.30	
30 x 6	POS RBU 3006/6 INOX 0.20 SG	43701006	4007220531884	1	\$9.94	
50 x 15	POS RBU 5015/6 INOX 0.20 SG	43701014	4007220531891	1	\$17.60	
70 x 15	POS RBU 7015/6 INOX 0.30 SG	43701019	4007220894620	1	\$18.80	
100 x 10	POS RBU 10010/6 INOX 0.30 SG	43701020	4007220894637	1	\$21.80	
Shaft Mounted Crimped Steel Wire						
50	POS TBU 5010/6 ST 0.30 SG	43703001	4007220532171	1	\$11.28	 POS
50	POS TBU 5010/6 INOX 0.30 SG	43703002	4007220894651	1	\$18.90	
Crimped Wire						
60	SB TBU 60/M14 ST 0.30	47700055	4007220816998	1	\$17.64	 POS
60	SB TBU 60/M10 x 1.5 ST 0.30	79182246	697940822467	1	\$17.64	
Cup Brushes - Twist Knot Steel Wire						
65	TBG 65/M14 ST 0.35	43710001	4007220532232	1	\$18.90	 POS
65	TBG 65/M10x1.50 ST 0.35	47700047	4007220816905	1	\$18.90	
Twist Knot Wire						
100	SB KBG 10013/M10 1.5 ST	79182207	697940822078	1	\$22.80	 POS
100	SB KBG 10013/M10 1.5 INOX	79182323	697940823235	1	\$39.44	
Poliscratch Brush						
100 x 20	POS RBU 10020/M14 SC ST 0.60 SG	N! 43502102	4007220892459	1	\$68.20	 POS
	ARBOR TO SUIT BO 8/M14 (Not Packaged)	N! 43595014	4007220900482	1	\$15.80	
Bench Brush						
150	POS RBU 15020 T/51 ST 0.35 SG (Inc. Bushes)	43707009	4007220532041	1	\$30.58	 POS
200	POS RBU 20020 T/51 ST 0.35 SG (Inc. Bushes)	43707021	4007220531983	1	\$40.44	

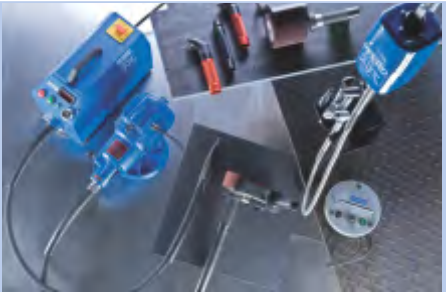
Size mm	Description	Article No.	Barcode		List Price	Image
Wire Brush Set						
Wire Brush Set						
	Set BSO 5500 ST SG	43900001	4007220220962	1	\$546.00	
Set Contents:	RBU2004/6 x 10 Pieces, RBU3006/6 x 10 Pieces RBU4009/6 x 5 Pieces, RBU5015/6 x 10 Pieces TBU5010/6 x 10 Pieces, RBU7015/6 x 5 Pieces PBU1010/6 x 5 Pieces, PBU1516/6 x 5 Pieces					
	BO 12/22.2 10-30 (Brush Arbor) 12.0mm Shaft*	43595103	4007220561317	1	\$118.44	

POS



Comparison of the Drive Systems

The PFERD program contains three drive types:

Air grinders	Electric grinders	Flexible shaft drives
		
Applications and economic efficiency		
Single workplace, stationary use	Single workplace, stationary use or on assembly sites	Single workplace, stationary, with a variety of tool applications
High-power output, efficient use of air, rugged, durable slide vane and turbine motors	High-power output, low wear ensures maximum service life	Very sturdy and durable, low wear ensures maximum service life
Drive types		
Straight grinders	Straight grinders	Straight grinders
Angle grinders	Angle grinders	Angle grinders
Belt grinders	Belt grinders	Belt grinders
-	Drum grinders	Drum grinders
Special drives	-	Special drives
Machine characteristics		
No risk of overloading, resistant until motor cuts off	Overload protection, can briefly withstand up to four times the nominal output	Overload protection, can briefly withstand up to six times the nominal output
Optimal RPM/power ratio	Optimal fine tuning for use of tools possible	Optimal fine tuning for use of tools possible
Good construction size to power output ratio	Higher power output compared to air-powered machines of the same speed	High motor outputs, compact handpieces, efficient power transmission to the tool
Higher RPM's available	Very speed-stable, ideal for tools that require constant speeds	Coverage of large speed ranges
Ergonomics/handling		
Machine size and shape suitable for many applications	Ergonomic machine shapes, easy-handli	Light, easy-to-handle handpiece, for low-fatigue work
Speed range [RPM]		
3,500 - 100,000	750 - 33,000	0 - 40,000
Speed variation		
Single rotation speed	Stepless, electronic	Stepless, electronic, alternatively using gears
Energy		
Compressed air (6,3 bar)	1-phase AC	1-phase AC 3-phase AC
Power range [W]		
75 - 1,000	500 - 1,530	500 - 2,700
Safety		
Safe energy form, no sparking	Safeguard to prevent unintentional re-startin	42 volt version suitable for protected use
Maintenance		
Simple exchange of worn parts	Simple exchange of carbon brushes	Maintenance can be performed by qualified technicians

PFERD repair service

PFERD provides a quick maintenance service so that downtimes for defective machines are kept as short as possible. Please contact your local PFERD sales service. You will receive a detailed quotation to aid you in making your decision. If the maintenance costs exceed 70 % of the reinstatement value, you will also receive a quotation for a new machine.

Technical changes

Further technical developments and ergonomic improvements are consistently included in our design and manufacture. We therefore reserve the right to make technical changes to our products. If we change our constructional designs, we generally guarantee that spare parts will remain available for four years after the change.

Guarantee

Within the scope of the PFERD guarantee, we take liability for deficiencies in air-power,

electric and flexible shaft drives as well as for accessories by repairing or replacing those parts which are defective at our discretion free of charge. We guarantee this entitlement to replacement and repair for a maximum of 12 months unless the law states that the time limits should be longer. We undertake no liability for damages occurring within this time due to unprofessional handling, use of other replacement parts or maintenance in other workshops.

Air grinders are the "top speed" machines amongst the drives. They achieve higher speeds in comparison to electric or flexible shaft drives. They have – when measured against their smaller size – a high power output. The robust and resistant sliding vane and turbine motors have a long service lifetime as well as being easy to service.

Areas of application

Air grinders are very versatile. They are used especially in medium and large sized companies that have a compressed air network at their disposal.

They are used economically and reliably in series production and assembly lines.

PFERD product range

PFERD offers straight, angle and belt grinders as well as special drives. PFERD air grinders are technically up to date and contain the latest ergonomic findings and requirements. They have been developed especially for the economic application of abrasives and cutting tools with defined geometries and cover a wide range of speeds (3,500 - 100,000 RPM) and performances (75 - 1,000 watts).

Advantages

- Compact, ergonomic designed shape
- Low weight
- Technically up to date
- High power to weight performance
- Versatile in use
- Single speed RPM
- No danger from overloading, can be loaded up to machine standstill
- Housing insulated against cold and vibration
- Low-maintenance
- Easy to service
- Cost effective

Criteria for selecting the optimum air grinder

The most important prerequisite for cost effective work is the selection of an optimal tool. After this, the choice of a suitable tool drive can be made. The following points have to be taken into consideration.

1. Design, shape and size

Every type of application places a specific demand on the shape and size of the tool drive. The various designs can be used for many different tasks: Depending on the dimensions, accessibility, type and frequency of the application, the ideal drive can be selected for the task in hand.

2. RPM

The drive should always be selected according to the RPM and cutting speed recommendations for the tool. Please refer to catalogue 21 sections 202 - 208 for these recommendations.

3. Power output

The drive unit's power output is the deciding factor for maintaining the RPM under load. The load is determined from the material to be machined, cutting capability of the tool and the grinding pressure.

4. Tool adapter

Depending on the PFERD tool you have selected, different tool adapters are available e.g. collets or threaded spindles. Every machine is allocated with matching collets.

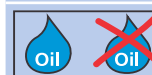
We have explained the most important criteria here. Should you have any further questions, your PFERD sales advisor will be happy to help.

Operates with or without oil

Turbine and sliding vane motors are labelled as follows:



Use only without oil.



Operates with or without oil.



Use only with oil.

Advantages of oil-free compressed air

- User-friendly, protecting both people and the workshop environment.
- Reduces operation costs, because oil and fittings can be dispensed with.
- Avoids oily precipitation on the workpiece.

Recommendations and prerequisites for an economically efficient use of air grinders

1. Air pressure

The machine should be run at an air pressure of 6 - 6.3 bar. A sufficient flow rate must be continuously ensured. Over-pressure leads to premature and higher levels of wear.

2. Air consumption

All data in this catalogue refers to air consumption in m³ per minute [m³/min]. This is the volume of the air when expanded to atmospheric pressure. Unless otherwise indicated, the air consumption figures stated are always for a pressure of 6 bar and the maximum consumption of the machine in question. Non-regulated, pneumatic devices have the highest consumption at idling speed. Centrifugal-force controlled air-powered machines have the highest air consumption under full load.

3. Rotational speed (RPM)

All speeds are stated in revolutions per minute [RPM] and refer to the idling speed at a pressure of 6 bar. In the case of non-controlled machines, the speed under full load is approx. 50 % of the idling speed with centrifugal force-controlled machines the speed under full load is approx. 80 to 90 %.

4. Oil mist lubrication

An adequate oil mist lubrication is of crucial importance for proper machine operation should the machine require oil. For special lubricating oil, see page 97.

5. Machines running on oil-free compressed air

Machines marked oil-free can be used without oil mist lubrication. Units which can operate with or without oil have a minimal reduction in RPM/output performance when used without oil.

6. Maintenance unit

It is recommended to install a complete maintenance unit (dirt filter + pressure reducer + oiler) at a distance not exceeding 5 m from the machine. The size of the filter pores should be 3 - 5 µm. If in humid environments, air-powered machines should not be operated without oil.

7. Microfilter

Small high-speed grinders (approx. 40,000 RPM and over) should be used with a microfilter instead of the regular dirt trap.

8. Air supply hose

The supply hose must have an inner diameter that at least corresponds to those stated for the drives.

9. Valves and fittings

Always use extra fittings such as hose nozzles, self-closing valve couplings etc. with the largest possible inner diameter. It is advisable to use not more than one valve coupling to prevent unnecessary pressure losses.

10. Noise level

Air tool operators must always wear hearing protection, as the process noise emission of the machines exceeds 85 dB(A) in many cases, even though the idling noise of the machine remains clearly below this value. For ear protectors, see page 99.



11. Vibrations

PFERD air tools meet the requirements of the EC machinery directive regarding vibrations from hand-held or hand-guided machines. This is achieved through:

- Precise concentricity,
- vibration damping intermediate layers,
- vibration-insulated housings.

For protective gloves see page 99.

12. Maintenance and safety

We recommend

- to service the drives at regular intervals and
- to wear personal protective equipment found on pages 98-99.

PRODUCT DESCRIPTION	PAGE
Electric Powered Tools	101
Electric Straight Grinders	101
Electric Pipe Belt Grinder	101
Electric Drum Grinder	101
Electric 5" Angle Grinder	101

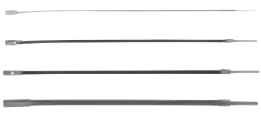
PRODUCT DESCRIPTION	PAGE
Air Powered Tools	102
Air Marking Pen / Engraver	102
Engraving Needles	102
Air Straight Grinders	102
Air Angle Grinders	102

PRODUCT DESCRIPTION	PAGE
Flexible Shaft Drives	103
Multi-Speed Mammoth Machines	103
Flexible Shaft Accessories	104
Flexible Shafts - Complete Assemblies	104

Description	Article No.	Barcode		List Price ea. \$	Image
Electric Powered Tools					
Electric Straight Grinder					
GRINDER UGER 11/330 SI RPM: 15,000 - 33,000 Output: 650 Watts Collet: 6.0mm Weight: 2.250 kg Overall Body Length: 380mm	83108230	4007220777367	1	\$1,921.63	
GRINDER UGER 15/60 SI RPM: 2,800 - 5,900 Output: 1050 Watts Collet: 12mm Weight: 3.050 kg Overall Body Length: 495mm	83106250	4007220777251	1	\$2,261.49	
Electric Pipe Belt Grinder					
GRINDER UGER 11/90 SI-R RPM: 4,000 - 9,000 Output: 650 Watts Belt Length: 610mm Belt Speed: 7 - 15.5 m/s Weight: 3 kg Overall Body Length: 530mm	83200230	4007220777275	1	\$2,785.57	
Electric Drum Grinder					
GRINDER UWER 15/40 SI D19 RPM: 900 - 3,500 Output: 1,050 Watts Spindle Drive: 19 x 100mm Weight: 4.300 kg Overall Body Length: 440mm	83300230	4007220777268	1	\$1,978.80	
Electric 5" Angle Grinder - Variable Speed					
GRINDER UWER 16/110 RPM: 2,600 - 11,000 Output: 1,520 Watts Spindle Drive: M14 Weight: 2.500 kg Overall Body Length: 390mm	83900038	4007220835074	1	P.O.A	

Description	Article No.	Barcode		List Price ea. \$	Image	
Air Powered Tools						
Air Marking Pen / Engraver						
MARKING PEN MST 31 M	80600110	4007220450079	1	\$600.31		
Strokes/min: 30,000 - 36,000 Operation Pressure: 6 - 7bar Needle Gauge: medium included Weight: 0.150 kg Overall Body Length: 155mm						
Engraving Needles						
Fine	95795701	4007220455722	1	\$128.05		
Medium	95795702	4007220455753	1	\$128.05		
Coarse	95795703	4007220455760	1	\$128.05		
Air Straight Grinder - Rear Exhaust						
GRINDER PGAS 1/750	80700026	4007220507803	1	\$1,175.21		
RPM: 75,000 Output: 110 Watts Collet: 3.0mm Weight: 0.150 kg Overall Body Length: 150mm						
Air Straight Grinder - Rear Exhaust						
GRINDER PGAS 1/550	80105100	4007220896600	1	\$1,401.40		
RPM: 55,000 Output: 100 Watts Collet: 3.0mm Weight: 0.101 kg Overall Body Length: 153mm						
Air Straight Grinder - Front Exhaust						
GRINDER PG 8/220 HV	80107081	4007220450840	1	\$1,407.08		
RPM: 22,000 Output: 600 Watts Collet: 6.0mm Weight: 0.950 kg Overall Body Length: 184mm						
Air Angle Grinder - Front Exhaust						
GRINDER PW 3/120 DH	80205050	4007220271780	1	\$1,394.37		
RPM: 12,000 Output: 220 Watts Spindle: 1/4" - 20 UNC Weight: 0.390 kg Overall Body Length: 146mm						
Air Angle Grinder - Front Exhaust						
GRINDER PWSA 4/200 HV	80700277	4007220598184	1	\$1,619.89		
RPM: 20,000 Output: 300 Watts Collet: 6.0mm Weight: 0.520 kg Overall Body Length: 150mm						
Air Angle Grinder - Front Botton Exhaust						
GRINDER PW11/120 HV	80209025	4007220447970	1	\$1,997.86		
RPM: 12,000 Output: 900 Watts Spindle: M14 Weight: 1.900 kg Overall Body Length: 265mm						

Size mm	Description	Article No.	Barcode		List Price	Image
Flexible Shaft Drives						
Multi-Speed Mammoth Machines						
	MAMMOTH MD10 230/400V	85102025	4007220181324	1	\$5,720.43	   
	Restart protection on power failure Drive Speeds: 2,100, 3,200, 5,700, 8,000 & 12,000 RPM Weight: 16.500 kg Dimensions L x W x H: 460 x 160/240 x 400mm					
	MAMMOTH MD10 B1 230/400V	85102035	4007220181331	1	\$5,850.65	
	Hanging Type Restart protection on power failure Drive Speeds: 2,100, 3,200, 5,700, 8,000 & 12,000 RPM Weight: 16.500 kg Body Dimensions L x W x H: 460 x 160/240 x 400mm					
	MAMMOTH MD10 B2 230/400V	85102045	4007220181348	1	\$5,993.58	
	In Overhead Trolley Restart protection on power failure Drive Speeds: 2,100, 3,200, 5,700, 8,000 & 12,000 RPM Weight: 16.500 kg Body Dimensions L x W x H: 460 x 160/240 x 400mm					
	MAMMOTH MD10-D 230/400V	85102050	4007220181355	1	\$6,943.28	
	On Base Trolley Restart protection on power failure Drive Speeds: 2,100, 3,200, 5,700, 8,000 & 12,000 RPM Weight: 16.500 kg Body Dimensions L x W x H: 460 x 160/240 x 400mm					

Description	Article No.	Barcode		List Price ea. \$	Image
Flexible Drive Shaft Accessories					
Flexible Shafts - Complete Assemblies					
4 ZG DIN10 (24 - 40,000rpm)	86100504	4007220181751	1	\$1,057.69	
7 ZG DIN10 (11 - 25,000rpm)	86100507	4007220181768	1	\$1,137.10	
10 ZG DIN10 (750 - 18,000rpm)	86100510	4007220181782	1	\$1,372.14	
12 ZG DIN10 (850 - 12,000rpm)	86100511	4007220181799	1	\$1,702.47	
Flexible Shafts - Outer Cases					
4 ZG DIN 10 G16	86200604	4007220182291	1	\$414.78	
7 ZG DIN 10 G22	86200607	4007220182307	1	\$469.20	
10 ZG DIN 10 G28 1.5M	86200610	4007220182321	1	\$572.30	
12 ZG DIN 10 G28	86200613	4007220182352	1	\$908.46	
Flexible Shafts - Inner Cores					
CORE 4 ZG DIN 10 G16	86200304	4007220182079	1	\$166.80	
CORE 7 ZG DIN 10 G22	86200307	4007220182086	1	\$186.10	
CORE 10 ZG DIN 10 G28	86200310	4007220182109	1	\$289.19	
CORE 12 ZG DIN 10 G28	86200313	4007220182130	1	\$328.64	
Accessories					
4 ZG Maintenance Set	86396005	4007220182970	1	\$123.90	
7 ZG Maintenance Set	86396007	4007220182994	1	\$123.90	
10/12 ZG Maintenance Set	86396006	4007220182987	1	\$123.90	



Coated Materials Converted In Australia

Suits metalworking & woodworking applications



Coated Materials Converted In Australia

PFERD Australia manufacture belts, discs, sheet and rolls which are made to order in our 'Coated Production Facility' located in Dingley Victoria. A comprehensive range of coated material is available in both paper and cloth, designed to suit all types of applications. Available materials include aluminium oxide, zirconia, silicon carbide and ceramic in a variety of grit sizes.

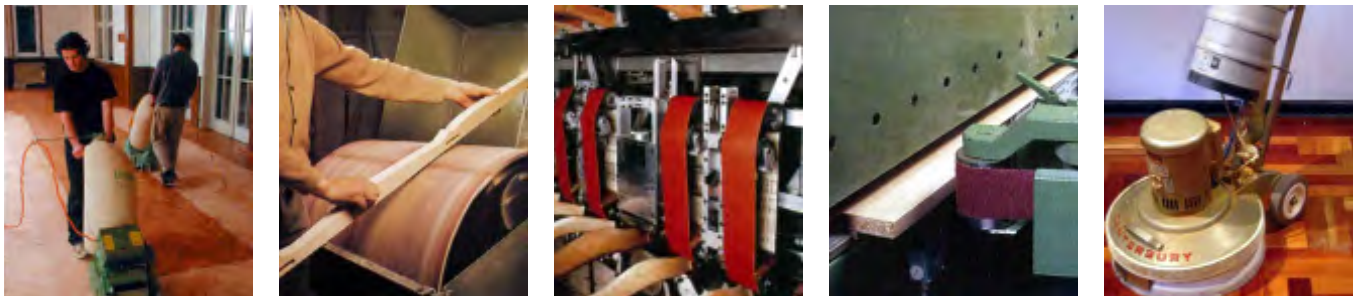
If the product you need is not shown in our product guide, please contact our customer service on 1300 0 PFERD.



Metalwork



Woodwork



Metal

- Portable Belts
- File Sander Belts
- Stroke Sanding
- Coil Grinding
- Backstand Grinding
- Dome Grinding
- Flat Bar Grinding
- Pipe & Tube Grinding
- Roll Grinding
- Sheet Grinding
- Turbine Grinding
- Centreless Polishing
- Flat Bar Polishing
- Metal Polishing
- Robotics
- Multi Tool Belts
- Discs Grinding & Finishing
- Pattern Making

Wood

- Portable Belts
- Stroke Sanding Belts
- Wide Belts
- Polyvacs
- Edger Discs
- Floor Sanding Belts
- Drum Grinding
- Edge Grinding
- Profile Radius Grinding

Contact PFERD for special applications or more information regarding belts made to order.

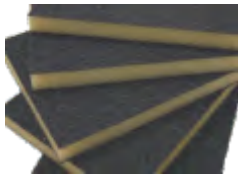
PRODUCT DESCRIPTION	PAGE	PRODUCT DESCRIPTION	PAGE	PRODUCT DESCRIPTION	PAGE
Coated Abrasive Products	107	Coated Accessories	111	Floor Sanding Products	121
WEC Silicon Carbide Waterproof Wet & Dry 230x280mm	107	SP10 Sponge Blocks	110	Portable Sanding Belts - Yellow Cork	115
AAR Aluminium Oxide Stearated 'A' Weight Paper 230x280mm	107	SP30 Sponge Blocks	111	Abrasive Linishing Belts - Aluminium Oxide - General Purpose	115-118
I-CAR Aluminium Oxide Stearated 'C' Weight Paper 230x280mm	107	Starter Kits - PSA/Velstick	111	Abrasive Linishing Belts - Zirconia - General Purpose	118-120
I-CARV Alox Stearated 'C' Weight Velstick Paper 115x228mm	108	Slip Cloth	111	Abrasive Linishing Belts - Zirconia - Premium - Top Size	120-121
I-CARV Alox Stearated 'C' Weight Velstick Paper 115x228mm 10 Hole	108	Miscellaneous Accessories	111	Abrasive Linishing Belts - Surface Conditioning Material	121
I-CARV Alox Stearated 'C' Weight Velstick Paper 93x788mm 8 Hole	108	Backing Pads - Velstick	111	Floor Sanding Products	121
E28V Alum. Oxide 'E' Weight Velstick Discs 125mm	108	Coated Abrasive Belts	111	Floor Sanding Belts - Aluminium Oxide - General Purpose	121-122
E28V Aluminium Oxide 'E' Weight Velstick Discs 125mm 8 Hole	108	File Sander Belts - Zirconia	111-112	Floor Sanding Belts - Aluminium Oxide - Premium	122
E28V Aluminium Oxide 'E' Weight Velstick Discs 150mm	109	File Sander Belts - Aluminium Oxide	112	Floor Sanding Belts - Zirconia - Heavy Duty	122-123
E28V Aluminium Oxide 'E' Weight Velstick Discs 150mm 9 Hole	109	File Sander Belts - Silicon Carbide	112-113	Floor Sanding Edger Discs - Paper	123
I-CARV Alox Stearated 'C' Weight Velstick Discs 150mm	109	File Sander Belts - Black Cork	113	Floor Sanding Edger Discs - Cloth	123
I-CARV Alox Stearated 'C' Weight Velstick Discs 150mm 6 Hole	109	File Sander Belts - Yellow Cork	113	Floor Sanding Polyvac Discs - Paper	123
I-CARV Alox Stearated 'C' Weight Velstick Discs 150mm 9 Hole	110	File Sander Belts - Surface Conditioning Material	113	Floor Sanding Screenback Discs	124
I-CAR Alox Stearated 'C' Weight Velstick Delta 80x80mm	110	Portable Sanding Belts - Aluminium Oxide	114	Floor Sanding Silverline Sheets - Aluminium Oxide Paper	124
E28 Alox Stearated 'E' Weight Velstick Delta 93x93mm	110	Portable Sanding Belts - Silicon Carbide	115	Floor Sanding Clarke Sheets - Aluminium Oxide Paper	124
E28 Alox Stearated 'E' Weight Velstick Delta 100x145mm	110	Portable Sanding Belts - Black Cork	115	Floor Sanding Zirconia Cloth Rolls	124
I-CAR/S Aluminium Oxide Stearated 'C' Weight Sponge Roll	110			Floor Sanding Silicon Carbide Paper Rolls	124

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Coated Abrasive Products						
WEC Silicon Carbide Waterproof (Wet & Dry) 230 x 280mm						
230 x 280	WEC230 P80	75600588	8010626022708	50	\$1.45	
230 x 280	WEC230 P100	75600589	8010626022715	100	\$1.31	
230 x 280	WEC230 P120	75600590	8010626022722	100	\$1.09	
230 x 280	WEC230 P150	75600591	8010626022739	100	\$1.02	
230 x 280	WEC230 P180	75600592	8010626022746	100	\$1.02	
230 x 280	WEC230 P240	75600593	8010626022760	100	\$0.95	
230 x 280	WEC230 P320	75600594	8010626022784	100	\$0.95	
230 x 280	WEC230 P400	75600595	8010626022807	100	\$0.95	
230 x 280	WEC230 P600	75600597	8010626022821	100	\$0.95	
230 x 280	WEC230 P800	75600598	8010626022838	100	\$0.95	
230 x 280	WEC230 P1000	75600599	8010626022845	100	\$0.95	
230 x 280	WEC230 P1200	75600601	8010626022852	100	\$0.95	
230 x 280	WEC230 P1500	75600602	8010626022869	100	\$0.95	
230 x 280	WEC230 P2000	75603651	8010626022876	100	\$0.95	
AAR Aluminium Oxide Stearated 'A' Weight Paper 230 x 280mm						
230 x 280	AAR230 P80	75600612	8010626016301	50	\$1.05	
230 x 280	AAR230 P100	75600613	8010626016318	100	\$0.98	
230 x 280	AAR230 P120	75600614	8010626016325	100	\$0.91	
230 x 280	AAR230 P150	75600615	8010626016332	100	\$0.80	
230 x 280	AAR230 P180	75600616	8010626016349	100	\$0.80	
230 x 280	AAR230 P240	75600617	8010626016363	100	\$0.80	
230 x 280	AAR230 P320	75600618	8010626016387	100	\$0.80	
230 x 280	AAR230 P400	75600619	8010626016400	100	\$0.80	
I-CAR Aluminium Oxide Stearated 'C' Weight Paper 230 x 280mm						
230 x 280	I-CAR230 P40	75600772	8025546189004	25	\$1.78	
230 x 280	I-CAR230 P60	75600773	8025546189011	25	\$1.35	
230 x 280	I-CAR230 P80	75600776	8025546189028	50	\$1.35	
230 x 280	I-CAR230 P100	75600777	8025546189035	100	\$1.27	
230 x 280	I-CAR230 P120	75600768	8025546189042	100	\$1.20	
230 x 280	I-CAR230 P150	75600778	8025546189059	100	\$1.05	
230 x 280	I-CAR230 P180	75600770	8025546189066	100	\$1.05	
230 x 280	I-CAR230 P240	75600769	8025546189080	100	\$1.05	
230 x 280	I-CAR230 P320	75600771	8025546189103	100	\$1.05	
230 x 280	I-CAR230 P400	75600774	8025546189110	100	\$1.05	
230 x 280	I-CAR230 P600*	75600775	8025546189134	100	\$1.05	

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Coated Abrasive Products (continued)						
I-CARV Aluminium Oxide Stearated 'C' Weight Velstick Paper 115 x 228mm - No Hole						
115 x 228	I-CARV115 P40*	75600759	8025546511508	100	\$1.35	
115 x 228	I-CARV115 P80*	75600761	8025546511522	100	\$1.20	
115 x 228	I-CARV115 P100*	75600762	8025546511539	100	\$1.05	
115 x 228	I-CARV115 P180*	75600764	8025546511560	100	\$0.98	
115 x 228	I-CARV115 P320*	75600766	8025546511607	100	\$0.98	
I-CARV Aluminium Oxide Stearated 'C' Weight Velstick Paper 115 x 228mm - 10 Hole						
115 x 228	I-CARV115/10 P40	75600620	8025546511706	100	\$1.35	
115 x 228	I-CARV115/10 P60	75600621	8025546511713	100	\$1.20	
115 x 228	I-CARV115/10 P80	75600622	8010626063008	100	\$1.20	
115 x 228	I-CARV115/10 P100	75600623	8010626063015	100	\$1.05	
115 x 228	I-CARV115/10 P120	75600624	8010626063022	100	\$1.05	
115 x 228	I-CARV115/10 P150	75600625	8010626063039	100	\$0.98	
115 x 228	I-CARV115/10 P180	75600626	8010626063046	100	\$0.98	
115 x 228	I-CARV115/10 P240	75600627	8010626063060	100	\$0.98	
115 x 228	I-CARV115/10 P320	75600628	8010626063084	100	\$0.98	
115 x 228	I-CARV115/10 P400	75601393	8010626063107	100	\$1.11	
I-CARV Aluminium Oxide Stearated 'C' Weight Velstick Paper 93 x 178mm - 8 Hole						
93 x 178	I-CARV93/8 P80	75600629	8010626063220	100	\$0.73	
93 x 178	I-CARV93/8 P120	75600630	8010626063244	100	\$0.65	
93 x 178	I-CARV93/8 P180	75600631	8010626063268	100	\$0.65	
93 x 178	I-CARV93/8 P240	75600632	8010626063282	100	\$0.65	
93 x 178	I-CARV93/8 P320	75602500	8010626063305	100	\$0.65	
93 x 178	I-CARV93/8 P400	75602501	8010626063329	100	\$0.65	
E28V Aluminium Oxide 'E' Weight Velstick Discs 125mm - No Hole						
125	E28V125 P40	75600692	8010626042904	100	\$0.91	
125	E28V125 P60	75600693	8010626042928	100	\$0.80	
125	E28V125 P80	75600694	8010626042935	100	\$0.73	
125	E28V125 P100	75600686	8010626042942	100	\$0.73	
125	E28V125 P120	75600687	8010626042959	100	\$0.73	
125	E28V125 P150	75600688	8010626042966	100	\$0.73	
125	E28V125 P180	75600689	8010626042973	100	\$0.73	
125	E28V125 P240	75600690	8010626042997	100	\$0.73	
125	E28V125 P320	75600691	8010626043024	100	\$0.73	
E28V Aluminium Oxide 'E' Weight Velstick Discs 125mm - 8 Hole						
125	E28V125/8 P40	75600695	8010626043109	50	\$0.91	
125	E28V125/8 P60	75600696	8010626043123	50	\$0.80	
125	E28V125/8 P80	75600697	8010626043130	100	\$0.73	
125	E28V125/8 P100	75600740	8010626043147	100	\$0.73	
125	E28V125/8 P120	75600741	8010626043154	100	\$0.73	
125	E28V125/8 P150	75600742	8010626043161	100	\$0.73	
125	E28V125/8 P180	75600743	8010626043178	100	\$0.73	
125	E28V125/8 P240	75600744	8010626043192	100	\$0.73	
125	E28V125/8 P320	75600745	8010626043215	100	\$0.73	

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Coated Abrasive Products (continued)						
E28V Aluminium Oxide 'E' Weight Velstick Discs 150mm - No Hole						
150	E28V150 P40	75600643	8025546037022	50	\$1.20	
150	E28V150 P60	75600644	8025546037046	50	\$1.05	
150	E28V150 P80	75600645	8025546037053	50	\$0.98	
150	E28V150 P100	75600646	8025546037060	100	\$0.91	
150	E28V150 P120	75600647	8025546037077	100	\$0.91	
150	E28V150 P150	75600648	8025546037084	100	\$0.91	
150	E28V150 P180	75600649	8025546037091	100	\$0.91	
150	E28V150 P240	75600596	8025546037114	100	\$0.91	
150	E28V150 P320	75600677	8025546037138	100	\$0.91	
E28V Aluminium Oxide 'E' Weight Velstick Discs 150mm - 9 Hole						
150	E28V150/9 P40	75600683	8010626051302	50	\$1.20	
150	E28V150/9 P60	75600684	8010626051326	50	\$1.05	
150	E28V150/9 P80	75600685	8010626051333	50	\$0.98	
150	E28V150/9 P100	75600678	8010626051340	100	\$0.91	
150	E28V150/9 P120	75600679	8010626051357	100	\$0.91	
150	E28V150/9 P150	75600680	8010626051364	100	\$0.91	
I-CARV Aluminium Oxide Stearated 'C' Weight Velstick Discs 150mm - No Hole						
150	I-CARV150 P40	75600699	8010626061004	50	\$1.09	
150	I-CARV150 P60	75600700	8010626061011	50	\$0.91	
150	I-CARV150 P80	75600701	8010626061028	100	\$0.91	
150	I-CARV150 P100	75600725	8010626061035	100	\$0.91	
150	I-CARV150 P120	75600726	8010626061042	100	\$0.91	
150	I-CARV150 P150	75600727	8010626061059	100	\$0.80	
150	I-CARV150 P180	75600728	8010626061066	100	\$0.80	
150	I-CARV150 P220	75602509	8010626061073	100	\$0.80	
150	I-CARV150 P240	75600729	8010626061080	100	\$0.80	
150	I-CARV150 P320	75600730	8010626061103	100	\$0.80	
150	I-CARV150 P400	75600731	8010626061127	100	\$0.80	
150	I-CARV150 P500	75602504	8010626061134	100	\$0.80	
150	I-CARV150 P600	75600732	8010626061141	100	\$0.80	
150	I-CARV150 P800	75600733	8010626061158	100	\$0.80	
150	I-CARV150 P1200	75600676	8010626061172	100	\$0.80	
I-CARV Aluminium Oxide Stearated 'C' Weight Velstick Discs 150mm - 6 Hole						
150	I-CARV150/6 P40	75600703	8010626061608	50	\$1.09	
150	I-CARV150/6 P60	75600704	8010626061615	50	\$0.91	
150	I-CARV150/6 P80	75600723	8010626061622	100	\$0.91	
150	I-CARV150/6 P100	75600698	8010626061639	100	\$0.91	
150	I-CARV150/6 P120	75600705	8010626061646	100	\$0.91	
150	I-CARV150/6 P150	75600706	8010626061653	100	\$0.80	
150	I-CARV150/6 P180	75600707	8010626061660	100	\$0.80	
150	I-CARV150/6 P240	75600708	8010626061684	100	\$0.80	
150	I-CARV150/6 P320	75600709	8010626061707	100	\$0.80	
150	I-CARV150/6 P400	75600710	8010626061721	100	\$0.80	
150	I-CARV150/6 P600	75600718	8010626061745	100	\$0.80	
150	I-CARV150/6 P800	75600719	8010626061752	100	\$0.80	
150	I-CARV150/6 P1200	75600702	8010626061778	100	\$0.80	

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Coated Abrasive Products (continued)						
I-CARV Aluminium Oxide Stearated 'C' Weight Velstick Discs 150mm - 9 Hole						
150	I-CARV150/9 P40	75600746	8010626061301	50	\$1.09	
150	I-CARV150/9 P60	75600747	8010626061318	50	\$0.91	
150	I-CARV150/9 P80	75600748	8010626061325	100	\$0.91	
150	I-CARV150/9 P100	75600749	8010626061332	100	\$0.91	
150	I-CARV150/9 P120	75600750	8010626061349	100	\$0.91	
150	I-CARV150/9 P150	75600751	8010626061356	100	\$0.80	
150	I-CARV150/9 P180	75600752	8010626061363	100	\$0.80	
150	I-CARV150/9 P240	75600754	8010626061387	100	\$0.80	
150	I-CARV150/9 P320	75600755	8010626061400	100	\$0.80	
150	I-CARV150/9 P400	75600756	8010626061424	100	\$0.80	
150	I-CARV150/9 P600	75600757	8010626061448	100	\$0.80	
150	I-CARV150/9 P800	75600758	8010626061455	100	\$0.80	
150	I-CARV150/9 P1200	75600675	8010626061479	100	\$0.80	
I-CAR Aluminium Oxide Stearated 'C' Weight Velstick Delta Discs 80 x 80mm - No Hole						
80 x 80	I-CARDEL80 P80	75600931	9324922015753	100	\$0.75	
80 x 80	I-CARDEL80 P100	75600932	9324922015760	100	\$0.62	
80 x 80	I-CARDEL80 P150	75600933	9324922015784	100	\$0.62	
80 x 80	I-CARDEL80 P180	75600934	9324922015791	100	\$0.62	
80 x 80	I-CARDEL80 P240	75600935	9324922015807	100	\$0.62	
E28 Aluminium Oxide Stearated 'E' Weight Velstick Delta Discs 93 x 93mm - No Hole						
93 x 93	E28DEL93 P40	75601446	9324922016132	100	\$0.82	
93 x 93	E28DEL93 P60	75601431	9324922016149	100	\$0.82	
93 x 93	E28DEL93 P80	75601434	9324922016156	100	\$0.75	
93 x 93	E28DEL93 P100	75601433	9324922016163	100	\$0.75	
93 x 93	E28DEL93 P120	75601435	9324922016170	100	\$0.75	
93 x 93	E28DEL93 P150	75600953	9324922016187	100	\$0.75	
93 x 93	E28DEL93 P180	75600954	9324922016194	100	\$0.75	
93 x 93	E28DEL93 P240	75600955	9324922016200	100	\$0.75	
93 x 93	E28DEL93 P320	75600956	9324922016217	100	\$0.75	
E28 Aluminium Oxide Stearated 'E' Weight Velstick Delta Discs 100 x 145mm - No Hole						
100 x 145	E28DEL100 P40	75600904	9324922016231	100	\$1.64	
100 x 145	E28DEL100 P60	75600905	9324922016248	100	\$1.44	
100 x 145	E28DEL100 P80	75600906	9324922016255	100	\$1.44	
100 x 145	E28DEL100 P120	75600907	9324922016279	100	\$1.35	
100 x 145	E28DEL100 P180	75600908	9324922016293	100	\$1.35	
100 x 145	E28DEL100 P240	75600909	9324922016309	100	\$1.35	
100 x 145	E28DEL100 P320	75600910	9324922016316	100	\$1.35	
100 x 145	E28DEL100 P400	75600911	9324922016323	100	\$1.35	
I-CAR/S Aluminium Oxide Stearated 'C' Weight Sponge Roll						
115 x 25M	SPONGE115/25 P120	75600673	8010626018824	1	\$106.22	
115 x 25M	SPONGE115/25 P150	75640075	8010626018831	1	\$106.22	
115 x 25M	SPONGE115/25 P180	75600652	8010626018848	1	\$106.22	
115 x 25M	SPONGE115/25 P240	75600653	8010626018862	1	\$106.22	
115 x 25M	SPONGE115/25 P320	75600674	8010626018886	1	\$106.22	
SP10 Sponge Blocks						
95 x 70 x 25	SP10 COARSE	75600654	8010626039997	100	\$1.67	
95 x 70 x 25	SP10 MEDIUM	75600655	8010626039980	100	\$1.67	
95 x 70 x 25	SP10 FINE	75600672	8010626039973	100	\$1.67	

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image	
Coated Abrasive Products (continued)							
SP30 Sponge Blocks							
100 x 125 x 12.5	SP30 COARSE	75600600	8010626039935	100	\$1.53		
100 x 125 x 12.5	SP30 MEDIUM	75600656	8010626039928	100	\$1.53		
100 x 125 x 12.5	SP30 FINE	75600657	8010626039911	100	\$1.53		
Coated Accessories							
Starter Kits - PSA/Velstick							
115	STARTER 115 x NH	75601604	9324922016330	5	\$5.20		
125	STARTER 125 x NH	75601605	9324922016347	5	\$5.76		
125	STARTER 125 x 8H	75601241	9324922016354	5	\$5.76		
150	STARTER 150 x NH	75601606	9324922016361	5	\$7.36		
150	STARTER 150 x 6H	75601119	9324922016378	5	\$7.36		
150	STARTER 150 x 9H	75601106	9324922016385	5	\$7.36		
93 x 178	STARTER 93 x 178 x NH	75601152	9324922016392	5	\$5.76		
Slip Cloth							
115 x 230	STARTER 115 x 230 x NH	75601189	9324922016408	5	\$8.96		
	100mm x 1524mm SLIP	75600662	9324922016422	1	\$44.35		
	150mm x 1524mm SLIP	75600663	9324922016439	1	\$71.71		
	200mm x 1524mm SLIP	75600664	9324922016446	1	\$80.47		
	533mm x 1524mm SLIP	75600665	9324922016453	1	\$202.13		
Miscellaneous Accessories							
	RESTORER STICK LARGE	75602503	9324922016590	1	\$23.87		
	DISC CEMENT 500gm	75600667	9324922015456	1	\$31.18		
Backing Pads - Velstick							
125	MULTIPAD 125 x 8H (5/16") (Velstick)	47600055	4007220818961	1	\$57.60		
150	AEB- MULTISYSTEM * (Sticky) Plain 6 and 9 Hole	75600668	9324922016620	1	\$53.80		
150	VEB - MULTISYSTEM (Velstick) Plain 6 and 9 Hole	75600661	9324922016644	1	\$58.73		
Coated Abrasive Belts							
File Sander Belts - Zirconia							
10 x 330	713T330/10 Z40	75435606	9324922003453	10	\$1.58		
10 x 330	713T330/10 Z60	75425043	9324922003460	10	\$1.51		
10 x 330	713T330/10 Z80	75425044	9324922003477	10	\$1.41		
10 x 330	713X330/10 Z100	75442466	9324922003484	10	\$1.41		
10 x 330	713X330/10 Z120	75425053	9324922003491	10	\$1.41		
12 x 610	713T610/12 Z40	75435607	9324922003521	10	\$2.10		
12 x 610	713T610/12 Z60	75435608	9324922003538	10	\$1.89		
12 x 610	713T610/12 Z80	75435609	9324922003545	10	\$1.79		
12 x 610	713X610/12 Z100	75442467	9324922003552	10	\$1.72		
12 x 610	713X610/12 Z120	75442468	9324922003569	10	\$1.72		
13 x 458	713T458/13 Z40	75435612	9324922003606	10	\$1.79		
13 x 458	713T458/13 Z60	75435613	9324922003613	10	\$1.58		
13 x 458	713T458/13 Z80	75415178	9324922003620	10	\$1.58		
13 x 458	713X458/13 Z100	75442469	9324922003637	10	\$1.51		
13 x 458	713X458/13 Z120	75442470	9324922003644	10	\$1.51		
20 x 520	713T520/20 Z40	75437254	9324922008748	10	\$1.89		
20 x 520	713T520/20 Z60	75437256	9324922010864	10	\$1.72		
20 x 520	713T520/20 Z80	75437257	9324922010871	10	\$1.72		
20 x 520	713X520/20 Z100	75436943	9324922010888	10	\$1.58		
20 x 520	713X520/20 Z120	75436596	9324925696499	10	\$1.58		
25 x 533	713T533/25 Z40	75435726	9324922010901	10	\$1.89		
25 x 533	713T533/25 Z60	75435727	9324922010918	10	\$1.58		
25 x 533	713T533/25 Z80	75435728	9324922010925	10	\$1.58		

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Coated Abrasive Belts (continued)						
File Sander Belts - Zirconia (continued)						
25 x 533	713X533/25 Z100	75442471	9324922010932	10	\$1.58	
25 x 533	713X533/25 Z120	75431808	9324922010949	10	\$1.58	
30 x 533	713T533/30 Z40	75435616	9324922003705	10	\$2.27	
30 x 533	713T533/30 Z60	75435617	9324922003712	10	\$2.10	
30 x 533	713T533/30 Z80	75435618	9324922003729	10	\$1.97	
30 x 533	713X533/30 Z100	75425539	9324922003736	10	\$1.89	
30 x 533	713X533/30 Z120	75431788	9324922003743	10	\$1.89	
File Sander Belts - Aluminium Oxide						
10 x 330	711X330/10 A40	75436524	9324922010956	10	\$1.45	
10 x 330	711X330/10 A60	75427121	9324922003583	10	\$1.41	
10 x 330	711X330/10 A80	75410874	9324922003590	10	\$1.41	
10 x 330	711X330/10 A100	75433234	9324922010963	10	\$1.41	
10 x 330	711X330/10 A120	75415122	9324922010970	10	\$1.41	
12 x 610	711X610/12 A40	75427203	9324922011038	10	\$1.89	
12 x 610	711X610/12 A60	75411920	9324922011045	10	\$1.89	
12 x 610	711X610/12 A80	75415135	9324922011052	10	\$1.79	
12 x 610	711X610/12 A100	75436749	9324922011069	10	\$1.79	
12 x 610	711X610/12 A120	75415108	9324922011076	10	\$1.62	
13 x 455	711T455/13 A40	75427136	9324922004832	10	\$1.62	
13 x 455	711T455/13 A60	75412012	9324922004948	10	\$1.72	
13 x 455	711T455/13 A80	75417434	9324922004955	10	\$1.58	
13 x 455	711X455/13 A100	75438125	9324922011083	10	\$1.45	
13 x 455	711X455/13 A120	75428591	9324922011090	10	\$1.45	
20 x 520	711X520/20 A40	75436646	9324922005082	10	\$1.72	
20 x 520	711X520/20 A60	75410677	9324922011106	10	\$1.79	
20 x 520	711X520/20 A80	75437213	9324922007673	10	\$1.72	
20 x 520	711X520/20 A120	75428578	9324922005075	10	\$1.72	
25 x 533	711X533/25 A40	75438169	9324922016460	10	\$1.89	
25 x 533	711T533/25 A60	75435737	9324922011120	10	\$1.79	
25 x 533	711T533/25 A80	75435738	9324922011137	10	\$1.72	
25 x 533	711X533/25 A100	75438126	9324922011144	10	\$1.72	
25 x 533	711X533/25 A120	75440877	9324922011151	10	\$1.72	
30 x 533	711X533/30 A40	75427029	9324922011168	10	\$2.06	
30 x 533	711X533/30 A60	75419209	9324922011175	10	\$2.10	
30 x 533	711X533/30 A80	75436333	9324922011182	10	\$2.10	
30 x 533	711X533/30 A100	75428433	9324922005594	10	\$1.89	
30 x 533	711X533/30 A120	75427122	9324922007086	10	\$1.89	
File Sander Belts - Silicon Carbide						
10 x 330	721X330/10 P40	75435740	9324922010987	10	\$1.51	
10 x 330	721X330/10 P60	75435741	9324922010994	10	\$1.41	
10 x 330	721X330/10 P80	75437177	9324922011007	10	\$1.41	
10 x 330	721X330/10 P100	75435742	9324922011014	10	\$1.41	
10 x 330	721X330/10 P120	75436410	9324922011021	10	\$1.41	
12 x 610	721X610/12 P40	75435745	9324922011199	10	\$1.90	
12 x 610	721X610/12 P60	75437284	9324922011205	10	\$1.72	
12 x 610	721X610/12 P80	75435746	9324922011212	10	\$1.72	
12 x 610	721X610/12 P100	75435747	9324922011229	10	\$1.58	
12 x 610	721X610/12 P120	75435748	9324922011236	10	\$1.58	
13 x 455	721X455/13 P40	75435749	9324922011243	10	\$1.58	
13 x 455	721X455/13 P60	75435750	9324922011250	10	\$1.51	
13 x 455	721X455/13 P80	75430309	9324922011267	10	\$1.51	
13 x 455	721X455/13 P100	75438195	9324922011274	10	\$1.51	
13 x 455	721X455/13 P120	75431188	9324922011281	10	\$1.51	
20 x 520	721X520/20 P40	75437021	9324922011298	10	\$1.72	
20 x 520	721X520/20 P60	75437230	9324922011304	10	\$1.58	
20 x 520	721X520/20 P80	75430347	9324922011311	10	\$1.58	
20 x 520	721X520/20 P100	75430483	9324922011328	10	\$1.51	
20 x 520	721X520/20 P120	75431178	9324922011335	10	\$1.51	
20 x 520	721X520/20 P150	75435272	9324922011342	10	\$1.51	
20 x 520	721X520/20 P180	75436526	9324922011359	10	\$1.51	
20 x 520	721X520/20 P240	75437231	9324922011366	10	\$1.51	
20 x 520	721X520/20 P320	75436340	9324922011373	10	\$1.51	

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image	
Coated Abrasive Belts (continued)							
File Sander Belts - Silicon Carbide (continued)							
20 x 520	721X520/20 P400	75436534	9324922011380	10	\$1.51		
25 x 533	721X533/25 P40	75437233	9324922011397	10	\$1.72		
25 x 533	721X533/25 P60	75437234	9324922011403	10	\$1.58		
25 x 533	721X533/25 P80	75437235	9324922011410	10	\$1.58		
25 x 533	721X533/25 P100	75436522	9324922011427	10	\$1.58		
25 x 533	721X533/25 P120	75437236	9324922011434	10	\$1.58		
25 x 533	721X533/25 P150	75437219	9324922011441	10	\$1.58		
25 x 533	721X533/25 P180	75437237	9324922011458	10	\$1.58		
25 x 533	721X533/25 P240	75437238	9324922011465	10	\$1.58		
25 x 533	721X533/25 P320	75437239	9324922011472	10	\$1.58		
25 x 533	721X533/25 P400	75437240	9324922011489	10	\$1.58		
30 x 533	721X533/30 P40	75437133	9324922011496	10	\$1.72		
30 x 533	721X533/30 P60	75429957	9324922011502	10	\$1.58		
30 x 533	721X533/30 P80	75430316	9324922011519	10	\$1.58		
30 x 533	721X533/30 P100	75435254	9324922011526	10	\$1.58		
30 x 533	721X533/30 P120	75431036	9324922011533	10	\$1.58		
30 x 533	721X533/30 P150	75435767	9324922011540	10	\$1.58		
30 x 533	721X533/30 P180	75435768	9324922011557	10	\$1.58		
30 x 533	721X533/30 P240	75435769	9324922011564	10	\$1.58		
30 x 533	721X533/30 P320	75431264	9324922011571	10	\$1.58		
30 x 533	721X533/30 P400	75436559	9324922011588	10	\$1.58		
File Sander Belts - Black Cork							
20 x 520	CORK520/20 P400	75437151	9324922011595	10	\$2.41		
20 x 520	CORK520/20 P600	75435721	9324922011601	10	\$2.41		
20 x 520	CORK520/20 P800	75435722	9324922011618	10	\$2.41		
25 x 533	CORK533/25 P400	75437241	9324922011625	10	\$2.41		
25 x 533	CORK533/25 P600	75435739	9324922011632	10	\$2.41		
25 x 533	CORK533/25 P800	75435743	9324922011649	10	\$2.41		
30 x 533	CORK533/30 P400	75435779	9324922011656	10	\$2.41		
30 x 533	CORK533/30 P600	75435780	9324922011663	10	\$2.41		
30 x 533	CORK533/30 P800	75435744	9324922011670	10	\$2.41		
File Sander Belts - Yellow Cork							
20 x 520	YCORK520/20 P400	75601540	9324922011687	10	\$3.09		
25 x 533	YCORK533/25 P400	75601541	9324922011694	10	\$3.36		
30 x 533	YCORK533/30 P400	75601000	9324922011700	10	\$4.09		
File Sander Belts - Surface Conditioning Material							
10 x 330	SCMC330/10 COARSE (Brown)	75600962	9324922011717	10	\$4.25		
10 x 330	SCMM330/10 MEDIUM (Maroon)	75600963	9324922011724	10	\$4.25		
10 x 330	SCMF330/10 FINE (Blue)	75600964	9324922011731	10	\$4.25		
12 x 457	SCMC457/12 COARSE (Brown)	75600965	9324922011748	10	\$5.53		
12 x 457	SCMM457/12 MEDIUM (Maroon)	75600966	9324922011755	10	\$5.53		
12 x 457	SCMF457/12 FINE (Blue)	75600967	9324922011762	10	\$5.53		
12 x 610	SCMC610/12 COARSE (Brown)	75600968	9324922011779	10	\$7.00		
12 x 610	SCMM610/12 MEDIUM (Maroon)	75600969	9324922011786	10	\$7.00		
12 x 610	SCMF610/12 FINE (Blue)	75600970	9324922011793	10	\$7.00		
20 x 520	SCMC520/20 COARSE (Brown)	75601107	9324922011809	10	\$6.09		
20 x 520	SCMM520/20 MEDIUM (Maroon)	75601108	9324922011816	10	\$6.09		
20 x 520	SCMF520/20 FINE (Blue)	75601493	9324922011823	10	\$6.47		
25 x 533	SCMC533/25 COARSE (Brown)	75601180	9324922011823	10	\$6.22		
25 x 533	SCMM533/25 MEDIUM (Maroon)	75601196	9324922011830	10	\$6.22		
25 x 533	SCMF533/25 FINE (Blue)	75601769	9324922011847	10	\$6.22		
30 x 533	SCMC533/30 COARSE (Brown)	75601495	9324922011854	10	\$7.49		
30 x 533	SCMM533/30 MEDIUM (Maroon)	75601086	9324922011861	10	\$7.49		
30 x 533	SCMF533/30 FINE (Blue)	75601494	9324922011878	10	\$7.49		

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Coated Abrasive Belts (continued)						
Portable Sanding Belts - Aluminium Oxide						
75 x 457	GXX457/75 P24	75601555	9324922008762	10	\$2.00	
75 x 457	GXX457/75 P36	75601556	9324922008779	10	\$2.00	
75 x 457	GXX457/75 P40	75600836	9324922006935	10	\$1.89	
75 x 457	GXX457/75 P60	75600837	9324922006942	10	\$1.89	
75 x 457	GXX457/75 P80	75600838	9324922006959	10	\$1.89	
75 x 457	GXX457/75 P100	75600839	9324922006966	10	\$1.89	
75 x 457	GXX457/75 P120	75600840	9324922006973	10	\$1.89	
75 x 457	GXX457/75 P150	75600841	9324922008786	10	\$1.89	
75 x 480	GXX480/75 P24	75600846	9324922012547	10	\$2.20	
75 x 480	GXX480/75 P36	75600847	9324922011953	10	\$2.20	
75 x 480	GXX480/75 P40	75600848	9324922011960	10	\$1.89	
75 x 480	GXX480/75 P60	75600849	9324922011977	10	\$1.89	
75 x 480	GXX480/75 P80	75600850	9324922011984	10	\$1.89	
75 x 480	GXX480/75 P100	75600843	9324922011991	10	\$1.89	
75 x 480	GXX480/75 P120	75600844	9324922012004	10	\$2.22	
75 x 480	GXX480/75 P150	75600845	9324922012011	10	\$1.89	
75 x 533	GXX533/75 P24	75600854	9324922012554	10	\$2.09	
75 x 533	GXX533/75 P36	75600855	9324922012028	10	\$2.09	
75 x 533	GXX533/75 P40	75600812	9324922003804	10	\$1.89	
75 x 533	GXX533/75 P60	75600813	9324922003811	10	\$1.89	
75 x 533	GXX533/75 P80	75600814	9324922003828	10	\$1.89	
75 x 533	GXX533/75 P100	75600811	9324922003835	10	\$1.89	
75 x 533	GXX533/75 P120	75600851	9324922003842	10	\$1.89	
75 x 533	GXX533/75 P150	75600852	9324922003859	10	\$1.89	
75 x 610	GXX610/75 P24	75600859	9324922011113	10	\$2.09	
75 x 610	GXX610/75 P36	75600860	9324922012035	10	\$2.09	
75 x 610	GXX610/75 P40	75600815	9324922003866	10	\$2.09	
75 x 610	GXX610/75 P60	75600824	9324922003873	10	\$2.00	
75 x 610	GXX610/75 P80	75600861	9324922003880	10	\$2.00	
75 x 610	GXX610/75 P100	75600862	9324922003897	10	\$2.00	
75 x 610	GXX610/75 P120	75600856	9324922003903	10	\$2.00	
75 x 610	GXX610/75 P150	75600857	9324922003910	10	\$2.00	
90 x 400	GXX400/90 P24	75601139	9324922012523	10	\$2.82	
90 x 400	GXX400/90 P36	75601140	9324922012042	10	\$2.62	
90 x 400	GXX400/90 P40	75600863	9324922012059	10	\$1.80	
90 x 400	GXX400/90 P60	75600864	9324922012066	10	\$1.80	
90 x 400	GXX400/90 P80	75600865	9324922012073	10	\$1.80	
90 x 400	GXX400/90 P100	75600866	9324922012080	10	\$1.80	
90 x 400	GXX400/90 P120	75600867	9324922012097	10	\$1.80	
90 x 400	GXX400/90 P150	75600868	9324922012103	10	\$1.80	
100 x 533	GXX533/100 P24	75600804	9324922003675	10	\$1.89	
100 x 533	GXX533/100 P36	75600805	9324922012110	10	\$1.89	
100 x 533	GXX533/100 P40	75600806	9324922003927	10	\$1.89	
100 x 533	GXX533/100 P60	75600807	9324922003934	10	\$1.89	
100 x 533	GXX533/100 P80	75600808	9324922003941	10	\$1.89	
100 x 533	GXX533/100 P100	75600803	9324922003958	10	\$1.89	
100 x 533	GXX533/100 P120	75600809	9324922003965	10	\$1.89	
100 x 533	GXX533/100 P150	75600810	9324922003972	10	\$1.89	
100 x 610	GXX610/100 P24	75600822	9324922004061	10	\$2.55	
100 x 610	GXX610/100 P36	75600823	9324922004078	10	\$2.42	
100 x 610	GXX610/100 P40	75600581	9324922003989	10	\$2.44	
100 x 610	GXX610/100 P60	75600583	9324922003996	10	\$2.44	
100 x 610	GXX610/100 P80	75600584	9324922004009	10	\$2.20	
100 x 610	GXX610/100 P100	75600579	9324922004016	10	\$2.20	
100 x 610	GXX610/100 P120	75600580	9324922004023	10	\$2.20	
100 x 610	GXX610/100 P150	75600582	9324922004030	10	\$2.20	

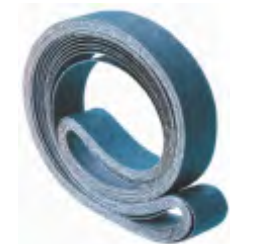
Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Coated Abrasive Belts (continued)						
Portable Sanding Belts - Silicon Carbide						
75 x 533	721X533/75 P40	75435770	9324922012127	10	\$2.58	
75 x 533	721X533/75 P60	75433462	9324922012134	10	\$2.41	
75 x 533	721X533/75 P80	75430319	9324922012141	10	\$2.41	
75 x 533	721X533/75 P100	75430511	9324922012158	10	\$2.27	
75 x 533	721X533/75 P120	75431040	9324922012165	10	\$2.27	
75 x 533	721X533/75 P150	75435771	9324922012172	10	\$2.27	
75 x 533	721X533/75 P180	75435772	9324922012189	10	\$2.27	
75 x 533	721X533/75 P240	75435773	9324922012196	10	\$2.27	
75 x 533	721X533/75 P320	75437222	9324922012202	10	\$2.27	
75 x 533	721X533/75 P400	75437223	9324922012219	10	\$2.27	
75 x 610	721X610/75 P40	75436762	9324922012226	10	\$2.71	
75 x 610	721X610/75 P60	75429958	9324922012233	10	\$2.58	
75 x 610	721X610/75 P80	75436765	9324922012240	10	\$2.48	
75 x 610	721X610/75 P100	75436763	9324922012257	10	\$2.41	
75 x 610	721X610/75 P120	75436764	9324922012264	10	\$2.41	
75 x 610	721X610/75 P180	75436767	9324922012288	10	\$2.41	
75 x 610	721X610/75 P240	75437023	9324922012295	10	\$2.41	
75 x 610	721X610/75 P320	75436958	9324922012301	10	\$2.41	
75 x 610	721X610/75 P400	75437153	9324922012561	10	\$2.42	
Portable Sanding Belts - Black Cork						
75 x 533	CORK533/75 P400	75435781	9324922012318	10	\$4.37	
75 x 533	CORK533/75 P600	75436384	9324922012325	10	\$4.37	
75 x 533	CORK533/75 P800	75436385	9324922012332	10	\$4.60	
75 x 610	CORK610/75 P400	75436391	9324922012349	10	\$5.10	
75 x 610	CORK610/75 P600	75439276	9324922012356	10	\$4.85	
75 x 610	CORK610/75 P800	75436387	9324922012363	10	\$5.10	
100 x 533	CORK533/100 P400	75436388	9324922012370	10	\$5.80	
100 x 533	CORK533/100 P600	75436389	9324922012387	10	\$5.54	
100 x 533	CORK533/100 P800	75436390	9324922012394	10	\$5.80	
100 x 610	CORK610/100 P400	75435782	9324922012400	10	\$6.36	
100 x 610	CORK610/100 P600	75435783	9324922012417	10	\$6.36	
100 x 610	CORK610/100 P800	75435785	9324922012424	10	\$6.70	
Portable Sanding Belts - Yellow Cork						
75 x 533	CORK533/75 YELLOW	75601001	9324922012431	10	\$7.78	
75 x 610	CORK610/75 YELLOW	75601005	9324922012448	10	\$8.75	
100 x 533	CORK533/100 YELLOW	75601006	9324922012455	10	\$10.08	
100 x 610	CORK610/100 YELLOW	75601002	9324922012462	10	\$6.91	
Abrasive Linishing Belts - Aluminium Oxide - General Purpose						
50 x 914	511X914/50 P24	75436181	9324922004108	12	\$4.26	
50 x 914	511X914/50 P36	75436182	9324922004115	12	\$3.95	
50 x 914	511X914/50 P40	75436183	9324922004122	12	\$3.86	
50 x 914	511X914/50 P60	75436184	9324922004139	12	\$3.68	
50 x 914	511X914/50 P80	75436185	9324922004146	12	\$3.57	
50 x 914	511X914/50 P100	75436186	9324922004153	12	\$3.47	
50 x 914	511X914/50 P120	75436187	9324922004160	12	\$3.47	
50 x 914	511X914/50 P150	75436188	9324922004177	12	\$3.47	
50 x 914	511X914/50 P180	75436189	9324922004184	12	\$3.47	
50 x 914	511X914/50 P240	75436190	9324922004191	12	\$3.47	
50 x 914	511X914/50 P320	75436414	9324922012479	12	\$3.47	
50 x 1220	511X1220/50 P24	75436191	9324922004207	12	\$4.94	
50 x 1220	511X1220/50 P36	75436192	9324922004214	12	\$4.68	
50 x 1220	511X1220/50 P40	75436193	9324922004221	12	\$4.47	
50 x 1220	511X1220/50 P60	75436194	9324922004238	12	\$4.16	
50 x 1220	511X1220/50 P80	75436195	9324922004245	12	\$3.95	

Size mm	Description		Article No.	Barcode		List Price ea. \$	Image
Coated Abrasive Belts (continued)							
Abrasive Linishing Belts - Aluminium Oxide							
General Purpose (continued)							
50 x 1220	511X1220/50	P100	75436196	9324922004252	12	\$3.95	
50 x 1220	511X1220/50	P120	75436197	9324922004269	12	\$3.95	
50 x 1220	511X1220/50	P150	75436198	9324922004276	12	\$4.14	
50 x 1220	511X1220/50	P180	75436199	9324922004283	12	\$3.95	
50 x 1220	511X1220/50	P240	75436200	9324922004290	12	\$3.95	
50 x 1220	511X1220/50	P320	75436375	9324922012486	12	\$3.95	
50 x 1520	511X1520/50	P24	75436201	9324922004306	12	\$5.75	
50 x 1520	511X1520/50	P36	75436202	9324922004313	12	\$5.67	
50 x 1520	511X1520/50	P40	75436203	9324922004320	12	\$5.06	
50 x 1520	511X1520/50	P60	75436204	9324922004337	12	\$4.68	
50 x 1520	511X1520/50	P80	75436205	9324922004344	12	\$4.77	
50 x 1520	511X1520/50	P100	75436206	9324922004351	12	\$4.37	
50 x 1520	511X1520/50	P120	75436207	9324922004368	12	\$4.37	
50 x 1520	511X1520/50	P150	75436208	9324922004375	12	\$4.60	
50 x 1520	511X1520/50	P180	75436209	9324922004382	12	\$4.37	
50 x 1520	511X1520/50	P240	75436210	9324922004399	12	\$4.37	
50 x 1520	511X1520/50	P320	75437042	9324922012493	12	\$4.37	
50 x 2440	511X2440/50	P24	75436211	9324922012509	12	\$8.04	
50 x 2440	511X2440/50	P36	75436212	9324922012516	12	\$7.29	
50 x 2440	511X2440/50	P40	75436213	9324922006836	12	\$6.91	
50 x 2440	511X2440/50	P60	75436214	9324922006843	12	\$6.22	
50 x 2440	511X2440/50	P80	75436215	9324922006850	12	\$6.05	
50 x 2440	511X2440/50	P100	75436216	9324922006867	12	\$5.84	
50 x 2440	511X2440/50	P120	75436217	9324922006874	12	\$5.84	
50 x 2440	511X2440/50	P150	75436218	9324922012578	12	\$6.12	
50 x 2440	511X2440/50	P180	75436219	9324922012585	12	\$5.84	
50 x 2440	511X2440/50	P240	75436220	9324922012592	12	\$5.84	
50 x 2440	511X2440/50	P320	75436413	9324922012608	12	\$5.84	
50 x 4270	511X4270/50	P40	75436223	9324922012639	12	\$10.61	
50 x 4270	511X4270/50	P60	75436224	9324922012646	12	\$9.90	
50 x 4270	511X4270/50	P80	75436225	9324922012653	12	\$9.54	
50 x 4270	511X4270/50	P100	75436226	9324922012660	12	\$9.14	
50 x 4270	511X4270/50	P120	75436227	9324922012677	12	\$9.14	
50 x 4270	511X4270/50	P150	75436228	9324922012684	12	\$9.14	
50 x 4270	511X4270/50	P180	75436229	9324922012691	12	\$9.14	
50 x 4270	511X4270/50	P240	75436230	9324922012707	12	\$9.14	
50 x 4270	511X4270/50	P320	75436231	9324922012714	12	\$9.14	
75 x 2000	511X2000/75	P24	75436232	9324922012721	6	\$10.21	
75 x 2000	511X2000/75	P36	75436233	9324922012738	6	\$9.32	
75 x 2000	511X2000/75	P40	75436234	9324922012745	6	\$8.90	
75 x 2000	511X2000/75	P60	75436235	9324922012752	6	\$8.11	
75 x 2000	511X2000/75	P80	75436236	9324922012769	6	\$7.81	
75 x 2000	511X2000/75	P100	75436237	9324922012776	6	\$7.56	
75 x 2000	511X2000/75	P120	75436238	9324922012783	6	\$7.56	
75 x 2000	511X2000/75	P150	75436239	9324922012790	6	\$7.56	
75 x 2000	511X2000/75	P180	75436240	9324922012806	6	\$7.56	
75 x 2000	511X2000/75	P240	75436241	9324922012813	6	\$7.56	
75 x 2000	511X2000/75	P320	75436242	9324922012820	6	\$7.56	
90 x 400	511X400/90	P24	75436243	9324922012844	6	\$4.47	
90 x 400	511X400/90	P36	75436244	9324922012851	6	\$4.16	
90 x 400	511X400/90	P40	75436245	9324922012868	6	\$3.09	
90 x 400	511X400/90	P60	75436246	9324922012875	6	\$2.94	

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Coated Abrasive Belts (continued)						
Abrasive Linishing Belts - Aluminium Oxide						
General Purpose (continued)						
90 x 400	511X400/90 P80	75436247	9324922012882	6	\$2.77	
90 x 400	511X400/90 P100	75441967	9324922012905	6	\$2.77	
90 x 400	511X400/90 P120	75436248	9324922012899	6	\$2.77	
90 x 400	511X400/90 P150	75436249	9324922012912	6	\$2.77	
90 x 400	511X400/90 P180	75436250	9324922012929	6	\$2.77	
90 x 400	511X400/90 P240	75436251	9324922012936	6	\$2.77	
90 x 400	511X400/90 P320	75436252	9324922012943	6	\$2.77	
100 x 914	511X914/100 P24	75436253	9324922004405	6	\$8.29	
100 x 914	511X914/100 P36	75436254	9324922004412	6	\$7.73	
100 x 914	511X914/100 P40	75436255	9324922004429	6	\$7.39	
100 x 914	511X914/100 P60	75436256	9324922004436	6	\$6.91	
100 x 914	511X914/100 P80	75436257	9324922004443	6	\$6.66	
100 x 914	511X914/100 P100	75436258	9324922004450	6	\$6.43	
100 x 914	511X914/100 P120	75436259	9324922004467	6	\$6.43	
100 x 914	511X914/100 P150	75436260	9324922004474	6	\$6.43	
100 x 914	511X914/100 P180	75436261	9324922004481	6	\$6.43	
100 x 914	511X914/100 P240	75436262	9324922004498	6	\$6.43	
100 x 914	511X914/100 P320	75436397	9324922004702	6	\$6.43	
100 x 1220	511X1220/100 P24	75438682	9324922010826	6	\$11.03	
100 x 1220	511X1220/100 P36	75439508	9324922005214	6	\$9.79	
100 x 1220	511X1220/100 P40	75436437	9324922006577	6	\$8.21	
100 x 1220	511X1220/100 P60	75436409	9324922006584	6	\$7.64	
100 x 1220	511X1220/100 P80	75436398	9324922006591	6	\$7.29	
100 x 1220	511X1220/100 P100	75435690	9324922006607	6	\$7.12	
100 x 1220	511X1220/100 P120	75436378	9324922006614	6	\$7.12	
100 x 1220	511X1220/100 P180	75436549	9324922013094	6	\$7.50	
100 x 1220	511X1220/100 P240	75436550	9324922013100	6	\$7.50	
100 x 1220	511X1220/100 P320	75438148	9324922013117	6	\$7.12	
100 x 1520	511X1520/100 P24	75436271	9324922004603	6	\$11.30	
100 x 1520	511X1520/100 P36	75436272	9324922004610	6	\$10.39	
100 x 1520	511X1520/100 P40	75436273	9324922004627	6	\$9.87	
100 x 1520	511X1520/100 P60	75436274	9324922004634	6	\$9.14	
100 x 1520	511X1520/100 P80	75436275	9324922004641	6	\$8.90	
100 x 1520	511X1520/100 P100	75436276	9324922004658	6	\$8.67	
100 x 1520	511X1520/100 P120	75436277	9324922004665	6	\$8.67	
100 x 1520	511X1520/100 P150	75436278	9324922004672	6	\$8.67	
100 x 1520	511X1520/100 P180	75436279	9324922004689	6	\$8.67	
100 x 1520	511X1520/100 P240	75436280	9324922004696	6	\$8.67	
100 x 1520	511X1520/100 P320	75436469	9324922012950	6	\$8.67	
100 x 2440	511X2440/100 P24	75436281	9324922004726	6	\$15.81	
100 x 2440	511X2440/100 P36	75436282	9324922004733	6	\$15.05	
100 x 2440	511X2440/100 P40	75436283	9324922004740	6	\$13.65	
100 x 2440	511X2440/100 P60	75436284	9324922004757	6	\$12.37	
100 x 2440	511X2440/100 P80	75436285	9324922004764	6	\$11.86	
100 x 2440	511X2440/100 P100	75436286	9324922004771	6	\$11.59	
100 x 2440	511X2440/100 P120	75436287	9324922004788	6	\$11.59	
100 x 2440	511X2440/100 P150	75436288	9324922004795	6	\$11.59	
100 x 2440	511X2440/100 P180	75436289	9324922004801	6	\$11.59	
100 x 2440	511X2440/100 P240	75436290	9324922004818	6	\$11.59	
100 x 2440	511X2440/100 P320	75436722	9324922012967	6	\$11.59	
100 x 4270	511X4270/100 P36	75436292	9324922012981	6	\$22.24	
100 x 4270	511X4270/100 P40	75436293	9324922012998	6	\$21.27	

Size mm	Description		Article No.	Barcode		List Price ea. \$	Image
Coated Abrasive Belts (continued)							
Abrasive Linishing Belts - Aluminium Oxide - General Purpose (cont.)							
100 x 4270	511X4270/100	P60	75436294	9324922013001	6	\$18.77	
100 x 4270	511X4270/100	P80	75436295	9324922013018	6	\$18.00	
100 x 4270	511X4270/100	P100	75436296	9324922013025	6	\$17.32	
100 x 4270	511X4270/100	P120	75436297	9324922013032	6	\$17.32	
100 x 4270	511X4270/100	P150	75436298	9324922013049	6	\$17.32	
100 x 4270	511X4270/100	P180	75436299	9324922013056	6	\$17.32	
100 x 4270	511X4270/100	P240	75436300	9324922013063	6	\$17.32	
100 x 4270	511X4270/100	P320	75436301	9324922013070	6	\$17.32	
150 x 1220	511X1220/150	P24	75436302	9324922004849	6	\$15.02	
150 x 1220	511X1220/150	P36	75436303	9324922004856	6	\$13.82	
150 x 1220	511X1220/150	P40	75436304	9324922004863	6	\$13.36	
150 x 1220	511X1220/150	P60	75436305	9324922004870	6	\$12.45	
150 x 1220	511X1220/150	P80	75436306	9324922004887	6	\$12.16	
150 x 1220	511X1220/150	P100	75436307	9324922004894	6	\$11.86	
150 x 1220	511X1220/150	P120	75436308	9324922004900	6	\$11.86	
150 x 1220	511X1220/150	P150	75436309	9324922004917	6	\$11.86	
150 x 1220	511X1220/150	P180	75436310	9324922004924	6	\$11.86	
150 x 1220	511X1220/150	P240	75436311	9324922004931	6	\$11.86	
150 x 1220	511X1220/150	P320	75436312	9324922013124	6	\$11.86	
150 x 1520	511X1520/150	P24	75436313	9324922004962	6	\$17.22	
150 x 1520	511X1520/150	P36	75436314	9324922004979	6	\$15.81	
150 x 1520	511X1520/150	P40	75436315	9324922004986	6	\$15.25	
150 x 1520	511X1520/150	P60	75436316	9324922004993	6	\$13.96	
150 x 1520	511X1520/150	P80	75436317	9324922005006	6	\$13.65	
150 x 1520	511X1520/150	P100	75436318	9324922005013	6	\$13.13	
150 x 1520	511X1520/150	P120	75436319	9324922005020	6	\$13.13	
150 x 1520	511X1520/150	P240	75436322	9324922005051	6	\$13.13	
Abrasive Linishing Belts - Zirconia - General Purpose							
50 x 914	713X914/50	Z24	75436051	9324922005105	12	\$5.92	
50 x 914	713X914/50	Z36	75436052	9324922005112	12	\$5.54	
50 x 914	713X914/50	Z40	75436053	9324922005129	12	\$5.36	
50 x 914	713X914/50	Z60	75436055	9324922005143	12	\$4.94	
50 x 914	713X914/50	Z80	75436056	9324922005150	12	\$4.85	
50 x 914	713X914/50	Z100	75436057	9324922005167	12	\$4.85	
50 x 914	713X914/50	Z120	75436058	9324922005174	12	\$4.85	
50 x 1220	713X1220/50	Z24	75436059	9324922005181	12	\$7.04	
50 x 1220	713X1220/50	Z36	75436060	9324922005198	12	\$6.53	
50 x 1220	713X1220/50	Z40	75436061	9324922005204	12	\$6.19	
50 x 1220	713X1220/50	Z60	75405830	9324922005228	12	\$5.84	
50 x 1220	713X1220/50	Z80	75409904	9324922005235	12	\$5.54	
50 x 1220	713X1220/50	Z100	75436063	9324922005242	12	\$5.46	
50 x 1220	713X1220/50	Z120	75436064	9324922005259	12	\$5.46	
50 x 1520	713X1520/50	Z24	75436065	9324922005266	12	\$7.56	
50 x 1520	713X1520/50	Z36	75436066	9324922005273	12	\$7.43	
50 x 1520	713X1520/50	Z40	75436067	9324922005280	12	\$7.18	
50 x 1520	713X1520/50	Z60	75436068	9324922005303	12	\$6.53	
50 x 1520	713X1520/50	Z80	75436069	9324922005310	12	\$6.19	
50 x 1520	713X1520/50	Z100	75436070	9324922005327	12	\$6.05	
50 x 1520	713X1520/50	Z120	75436071	9324922005334	12	\$6.05	
50 x 2440	713X2440/50	Z36	75436073	9324922005358	12	\$10.39	
50 x 2440	713X2440/50	Z40	75436074	9324922005365	12	\$9.87	
50 x 2440	713X2440/50	Z60	75436075	9324922005389	12	\$8.90	
50 x 2440	713X2440/50	Z80	75436076	9324922005396	12	\$8.42	
50 x 2440	713X2440/50	Z100	75436077	9324922005402	12	\$8.15	
50 x 2440	713X2440/50	Z120	75436078	9324922005419	12	\$8.15	

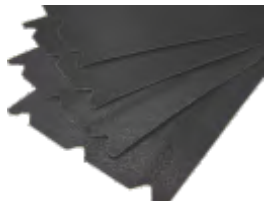
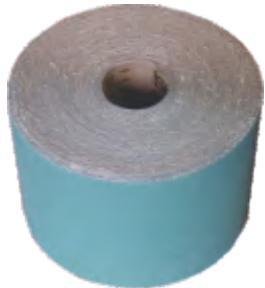
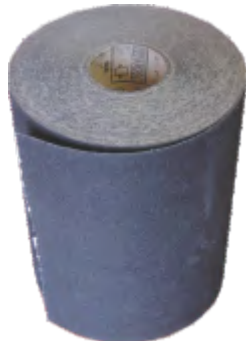
Size mm	Description	Article No.	Barcode		List Price ea. \$	Image
Coated Abrasive Belts (continued)						
Abrasive Linishing Belts - Zirconia - General Purpose (continued)						
50 x 4270	713X4270/50 Z24	75436079	9324922013148	12	\$18.04	
50 x 4270	713X4270/50 Z36	75436080	9324922013155	12	\$16.23	
50 x 4270	713X4270/50 Z40	75436081	9324922013162	12	\$15.33	
50 x 4270	713X4270/50 Z60	75436082	9324922013179	12	\$13.61	
50 x 4270	713X4270/50 Z80	75436083	9324922013186	12	\$12.75	
50 x 4270	713X4270/50 Z100	75436084	9324922013193	12	\$12.28	
50 x 4270	713X4270/50 Z120	75436085	9324922013209	12	\$12.28	
75 x 2000	713X2000/75 Z24	75415617	9324922013216	12	\$14.60	
75 x 2000	713X2000/75 Z36	75415927	4018875043905	12	\$13.27	
75 x 2000	713X2000/75 Z40	75415928	4018875043912	12	\$12.62	
75 x 2000	713X2000/75 Z60	75415614	4018875043929	12	\$11.38	
75 x 2000	713X2000/75 Z80	75415615	4018875043936	12	\$10.86	
75 x 2000	713X2000/75 Z100	75415618	4018875043943	12	\$10.48	
75 x 2000	713X2000/75 Z120	75415616	4018875043950	12	\$10.48	
100 x 914	713X914/100 Z24	75436086	9324922005426	6	\$11.65	
100 x 914	713X914/100 Z36	75436087	9324922005433	6	\$10.79	
100 x 914	713X914/100 Z40	75436088	9324922005440	6	\$10.39	
100 x 914	713X914/100 Z60	75436089	9324922005464	6	\$9.66	
100 x 914	713X914/100 Z80	75436090	9324922005471	6	\$9.32	
100 x 914	713X914/100 Z100	75436091	9324922005488	6	\$9.14	
100 x 914	713X914/100 Z120	75436092	9324922005495	6	\$9.14	
100 x 1520	713X1520/100 Z24	75436096	9324922005600	6	\$15.94	
100 x 1520	713X1520/100 Z36	75436097	9324922005617	6	\$14.60	
100 x 1520	713X1520/100 Z40	75436098	9324922005624	6	\$13.96	
100 x 1520	713X1520/100 Z60	75431709	9324922005648	6	\$12.75	
100 x 1520	713X1520/100 Z80	75436099	9324922005655	6	\$12.28	
100 x 1520	713X1520/100 Z100	75436100	9324922005662	6	\$11.86	
100 x 1520	713X1520/100 Z120	75436101	9324922005679	6	\$11.86	
100 x 2440	713X2440/100 Z24	75436102	9324922005686	6	\$22.64	
100 x 2440	713X2440/100 Z36	75436103	9324922005693	6	\$20.52	
100 x 2440	713X2440/100 Z40	75436104	9324922005709	6	\$19.38	
100 x 2440	713X2440/100 Z60	75436105	9324922005723	6	\$17.56	
100 x 2440	713X2440/100 Z80	75436106	9324922005730	6	\$16.57	
100 x 2440	713X2440/100 Z100	75436107	9324922005747	6	\$15.94	
100 x 2440	713X2440/100 Z120	75436108	9324922005754	6	\$15.94	
100 x 4270	713X4270/100 Z24	75436109	9324922013285	6	\$37.80	
100 x 4270	713X4270/100 Z36	75436110	9324922013292	6	\$33.85	
100 x 4270	713X4270/100 Z40	75436111	9324922013308	6	\$30.28	
100 x 4270	713X4270/100 Z60	75436112	9324922013315	6	\$26.94	
100 x 4270	713X4270/100 Z80	75436113	9324922013322	6	\$25.30	
100 x 4270	713X4270/100 Z100	75436114	9324922013339	6	\$24.23	
100 x 4270	713X4270/100 Z120	75436115	9324922013346	6	\$24.23	
150 x 1220	713X1220/150 Z24	75431519	9324922005761	6	\$22.00	
150 x 1220	713X1220/150 Z36	75431548	9324922005778	6	\$19.38	
150 x 1220	713X1220/150 Z40	75436116	9324922005785	6	\$18.56	
150 x 1220	713X1220/150 Z60	75418417	9324922005808	6	\$17.60	
150 x 1220	713X1220/150 Z80	75431725	9324922005815	6	\$16.40	
150 x 1220	713X1220/150 Z100	75436117	9324922005822	6	\$16.06	
150 x 1220	713X1220/150 Z120	75431809	9324922005839	6	\$16.06	
150 x 1520	713X1520/150 Z24	75436118	9324922005846	6	\$24.23	
150 x 1520	713X1520/150 Z36	75436119	9324922005853	6	\$22.24	
150 x 1520	713X1520/150 Z40	75436120	9324922005860	6	\$21.27	
150 x 1520	713X1520/150 Z60	75436121	9324922005884	6	\$19.38	
150 x 1520	713X1520/150 Z80	75431719	9324922005891	6	\$18.56	
150 x 1520	713X1520/150 Z120	75436123	9324922005914	6	\$18.04	
150 x 2000	713X2000/150 Z24	75415629	9324922013353	6	\$27.72	
150 x 2000	713X2000/150 Z36	75415630	9324922013360	6	\$24.97	
150 x 2000	713X2000/150 Z40	75415924	9324922013377	6	\$23.77	

Size mm	Description		Article No.	Barcode		List Price ea. \$	Image
Coated Abrasive Belts (continued)							
Abrasive Linishing Belts - Zirconia - General Purpose (continued)							
150 x 2000	713X2000/150	Z60	75415925	9324922013384	6	\$21.36	
150 x 2000	713X2000/150	Z80	75415926	9324922013391	6	\$20.27	
150 x 2000	713X2000/150	Z100	75403317	9324922013407	6	\$19.61	
150 x 2000	713X2000/150	Z120	75415631	9324922013414	6	\$19.61	
150 x 4270	713X4270/150	Z36	75436125	9324922013438	6	\$52.56	
150 x 4270	713X4270/150	Z40	75436126	9324922013445	6	\$47.88	
150 x 4270	713X4270/150	Z60	75436127	9324922013452	6	\$38.77	
150 x 4270	713X4270/150	Z80	75436128	9324922013469	6	\$39.96	
150 x 4270	713X4270/150	Z100	75436129	9324922013476	6	\$34.84	
150 x 4270	713X4270/150	Z120	75436130	9324922013483	6	\$38.43	
Abrasive Linishing Belts - Zirconia - Premium Top Size							
50 x 914	744X914/50	Z36	75436857	9324922005921	12	\$5.75	
50 x 914	744X914/50	Z40	75436632	9324922005938	12	\$5.67	
50 x 914	744X914/50	Z60	75436617	9324922005945	12	\$5.23	
50 x 914	744X914/50	Z80	75436616	9324922005952	12	\$5.90	
50 x 1220	744X1220/50	Z36	75436858	9324922005969	12	\$6.83	
50 x 1220	744X1220/50	Z40	75436745	9324922005976	12	\$6.53	
50 x 1220	744X1220/50	Z60	75436859	9324922005983	12	\$6.05	
50 x 1220	744X1220/50	Z80	75436860	9324922005990	12	\$5.75	
50 x 1520	744X1520/50	Z36	75436861	9324922006003	12	\$7.73	
50 x 1520	744X1520/50	Z40	75436678	9324922006010	12	\$7.43	
50 x 1520	744X1520/50	Z60	75436571	9324922006027	12	\$6.83	
50 x 1520	744X1520/50	Z80	75436862	9324922006034	12	\$6.53	
50 x 2440	744X2440/50	Z36	75436836	9324922006041	12	\$10.86	
50 x 2440	744X2440/50	Z40	75436863	9324922006058	12	\$10.31	
50 x 2440	744X2440/50	Z60	75436618	9324922006065	12	\$9.18	
50 x 2440	744X2440/50	Z80	75436881	9324922006072	12	\$9.23	
50 x 4270	744X4270/50	Z36	75438153	9324922013506	12	\$17.78	
50 x 4270	744X4270/50	Z40	75436865	9324922013513	12	\$15.54	
50 x 4270	744X4270/50	Z60	75436866	9324922013520	12	\$14.80	
50 x 4270	744X4270/50	Z80	75438154	9324922013537	12	\$14.00	
75 x 2000	744X2000/75	Z36	75412368	9324922010444	12	\$13.12	
75 x 2000	744X2000/75	Z40	75402156	9324922013544	12	\$12.41	
75 x 2000	744X2000/75	Z60	75419364	9324922013551	12	\$11.13	
75 x 2000	744X2000/75	Z80	75403799	9324922013568	12	\$10.56	
100 x 914	744X914/100	Z36	75436868	9324922006089	12	\$11.17	
100 x 914	744X914/100	Z40	75436869	9324922006096	12	\$10.86	
100 x 914	744X914/100	Z60	75435759	9324922006102	12	\$10.10	
100 x 914	744X914/100	Z80	75436870	9324922006119	12	\$9.79	
100 x 1520	744X1520/100	Z36	75436872	9324922006164	6	\$15.25	
100 x 1520	744X1520/100	Z40	75436633	9324922006171	6	\$14.57	
100 x 1520	744X1520/100	Z60	75436587	9324922006188	6	\$13.36	
100 x 1520	744X1520/100	Z80	75436873	9324922006195	6	\$12.68	
100 x 2440	744X2440/100	Z36	75436874	9324922006201	6	\$21.34	
100 x 2440	744X2440/100	Z40	75436875	9324922006218	6	\$20.27	
100 x 2440	744X2440/100	Z60	75435706	9324922006225	6	\$18.29	
100 x 2440	744X2440/100	Z80	75436876	9324922006232	6	\$17.32	
100 x 4270	744X4270/100	Z36	75436877	9324922013575	6	\$33.50	
100 x 4270	744X4270/100	Z40	75436615	9324922013582	6	\$31.61	
100 x 4270	744X4270/100	Z60	75436878	9324922013599	6	\$27.97	
100 x 4270	744X4270/100	Z80	75436879	9324922013605	6	\$26.42	
150 x 1220	744X1220/150	Z36	75438188	9324922016484	6	\$21.15	
150 x 1220	744X1220/150	Z40	75438189	9324922016491	6	\$19.38	
150 x 1220	744X1220/150	Z60	75438190	9324922016507	6	\$17.91	
150 x 1220	744X1220/150	Z80	75428953	9324922006270	6	\$18.05	
150 x 1520	744X1520/150	Z36	75437948	9324922006287	6	\$23.16	
150 x 1520	744X1520/150	Z40	75438191	9324922016514	6	\$22.16	
150 x 1520	744X1520/150	Z60	75436880	9324922006300	6	\$21.24	

Size mm	Description	Article No.	Barcode		List Price ea. \$	Image	
Coated Abrasive Belts (continued)							
Abrasive Linishing Belts - Zirconia - Premium Top Size (continued)							
150 x 1520	744X1520/150 Z80	75435751	9324922006317	6	\$20.30		
150 x 2000	744X2000/150 Z36	75419245	9324922013612	6	\$28.08		
150 x 2000	744X2000/150 Z40	75437540	9324922013629	6	\$25.16		
150 x 2000	744X2000/150 Z60	75428944	9324922013636	6	\$22.62		
150 x 2000	744X2000/150 Z80	75438155	9324922013643	6	\$21.46		
150 x 4270	744X4270/150 Z36	75437173	9324922013650	6	\$49.18		
150 x 4270	744X4270/150 Z40	75438192	9324922016521	6	\$50.00		
150 x 4270	744X4270/150 Z60	75438193	9324922016538	6	\$44.42		
150 x 4270	744X4270/150 Z80	75438194	9324922016545	6	\$41.85		
Abrasive Linishing Belts - Surface Conditioning Material							
50 x 915	SCMC915/50 CRS (Brown)	75600974	9324922007475	2	\$28.80		
50 x 915	SCMM915/50 MED (Maroon)	75600975	9324922007499	2	\$28.80		
50 x 915	SCMF915/50 FIN (Blue)	75600976	9324922007482	2	\$28.80		
50 x 1220	SCMC1220/50 CRS (Brown)	75600977	9324922007444	2	\$34.20		
50 x 1220	SCMM1220/50 MED (Maroon)	75600978	9324922007468	2	\$34.20		
50 x 1220	SCMF1220/50 FIN (Blue)	75600979	9324922007451	2	\$34.20		
50 x 1520	SCMC1520/50 CRS (Brown)	75600980	9324922013698	2	\$34.20		
50 x 1520	SCMM1520/50 MED (Maroon)	75600981	9324922013704	2	\$38.98		
50 x 1520	SCMF1520/50 FIN (Blue)	75601150	9324922013711	2	\$36.38		
50 x 2440	SCMC2440/50 CRS (Brown)	75600923	9324922013728	2	\$55.67		
50 x 2440	SCMM2440/50 MED (Maroon)	75600982	9324922013735	2	\$55.67		
50 x 2440	SCMF2440/50 FIN (Blue)	75600983	9324922013742	2	\$55.67		
90 x 400	SCMC400/90 CRS (Brown)	75600984	9324922013759	2	\$25.16		
90 x 400	SCMM400/90 MED (Maroon)	75600985	9324922013766	2	\$25.16		
90 x 400	SCMF400/90 FIN (Blue)	75600986	9324922013773	2	\$25.16		
100 x 915	SCMC915/100 CRS (Brown)	75600987	9324922007413	2	\$55.80		
100 x 915	SCMM915/100 MED (Maroon)	75600988	9324922007437	2	\$55.80		
100 x 915	SCMF915/100 FIN (Blue)	75600989	9324922007420	2	\$55.80		
100 x 1220	SCMC1220/100 CRS (Brown)	75600990	9324922013780	2	\$66.47		
100 x 1220	SCMM1220/100 MED (Maroon)	75600991	9324922013797	2	\$66.47		
100 x 1220	SCMF1220/100 FIN (Blue)	75600992	9324922013803	2	\$66.47		
100 x 1520	SCMC1520/100 CRS (Brown)	75600993	9324922013810	2	\$77.27		
100 x 1520	SCMM1520/100 MED (Maroon)	75600994	9324922013827	2	\$77.27		
100 x 1520	SCMF1520/100 FIN (Blue)	75600995	9324922013834	2	\$77.27		
100 x 2440	SCMC2440/100 CRS (Brown)	75600996	9324922013841	2	\$109.60		
100 x 2440	SCMM2440/100 MED (Maroon)	75600997	9324922013858	2	\$109.60		
100 x 2440	SCMF2440/100 FIN (Blue)	75600998	9324922013865	2	\$109.60		
Floor Sanding Products							
Floor Sanding Belts - Aluminium Oxide - General Purpose							
200 x 480	GXK480/200 P24	75601384	9324922013872	5	\$5.36		
200 x 480	GXK480/200 P36	75601385	9324922013889	5	\$4.84		
200 x 480	GXK480/200 P40	75601542	9324922013896	10	\$4.67		
200 x 480	GXK480/200 P60	75601379	9324922013902	10	\$4.25		
200 x 480	GXK480/200 P80	75601380	9324922013919	10	\$4.25		
200 x 480	GXK480/200 P100	75601383	9324922013926	10	\$3.80		
200 x 480	GXK480/200 P120	75601693	9324922013933	10	\$3.85		
200 x 551	GXK551/200 P24	75601473	9324922014015	5	\$7.65		
200 x 551	GXK551/200 P36	75600943	9324922014022	5	\$7.80		
200 x 551	GXK551/200 P40	75601474	9324922014039	10	\$6.80		
200 x 551	GXK551/200 P60	75600944	9324922014046	10	\$6.70		
200 x 551	GXK551/200 P80	75601475	9324922014053	10	\$6.05		

Size mm	Description		Article No.	Barcode		List Price ea. \$	Image
Floor Sanding Products (continued)							
Floor Sanding Belts - Aluminium Oxide - General Purpose (cont.)							
200 x 551	GXK551/200	P100	75600945	9324922014060	10	\$6.55	
200 x 551	GXK551/200	P120	75601476	9324922014077	10	\$5.31	
200 x 750	GXK750/200	P24	75601396	9324922014084	5	\$9.25	
200 x 750	GXK750/200	P36	75601397	9324922014091	5	\$8.47	
200 x 750	GXK750/200	P40	75601398	9324922014107	10	\$8.11	
200 x 750	GXK750/200	P60	75601399	9324922014114	10	\$7.45	
200 x 750	GXK750/200	P80	75601400	9324922014121	10	\$7.16	
200 x 750	GXK750/200	P100	75601401	9324922014138	10	\$7.00	
200 x 750	GXK750/200	P120	75601402	9324922014145	10	\$7.00	
							
Floor Sanding Belts - Aluminium Oxide - Premium							
200 x 750	504X750/200	P24	75408128	4018875295014	5	\$11.38	
200 x 750	504X750/200	P36	75420178	9324922014305	5	\$10.39	
200 x 750	504X750/200	P40	75420179	9324922014312	10	\$9.87	
200 x 750	504X750/200	P60	75404844	9324922014329	10	\$9.11	
200 x 750	504X750/200	P80	75404845	9324922014336	10	\$8.72	
200 x 750	504X750/200	P100	75402740	9324922014343	10	\$8.42	
200 x 750	504X750/200	P120	75433050	4018875295083	10	\$8.42	
250 x 750	504X750/250	P24	75435646	9324922014367	5	\$13.27	
250 x 750	504X750/250	P36	75435647	9324922014374	5	\$12.70	
250 x 750	504X750/250	P40	75435648	9324922014381	10	\$11.59	
250 x 750	504X750/250	P60	75435649	9324922014398	10	\$10.48	
250 x 750	504X750/250	P80	75435650	9324922014404	10	\$10.00	
250 x 750	504X750/250	P100	75435651	9324922014411	10	\$9.62	
250 x 750	504X750/250	P120	75435652	9324922014428	10	\$9.62	
300 x 750	504X750/300	P24	75435658	9324922014435	5	\$15.25	
300 x 750	504X750/300	P36	75435659	9324922014442	5	\$14.50	
300 x 750	504X750/300	P40	75435660	9324922014459	10	\$13.13	
300 x 750	504X750/300	P60	75435661	9324922014466	10	\$12.50	
300 x 750	504X750/300	P80	75435662	9324922014473	10	\$11.84	
300 x 750	504X750/300	P100	75435663	9324922014480	10	\$11.40	
300 x 750	504X750/300	P120	75435664	9324922014497	10	\$11.40	
300 x 800	504X800/300	P24	75435672	9324922014503	5	\$16.02	
300 x 800	504X800/300	P36	75435673	9324922014510	5	\$14.43	
300 x 800	504X800/300	P40	75435674	9324922014527	10	\$13.75	
300 x 800	504X800/300	P60	75435675	9324922014534	10	\$12.37	
300 x 800	504X800/300	P80	75435676	9324922014541	10	\$11.76	
300 x 800	504X800/300	P100	75435677	9324922014558	10	\$11.38	
300 x 800	504X800/300	P120	75435678	9324922014565	10	\$11.38	
Floor Sanding Belts - Zirconia - Heavy Duty							
200 x 551	713X551/200	Z24	75435625	9324922014572	5	\$12.45	
200 x 551	713X551/200	Z36	75435626	9324922014589	5	\$12.15	
200 x 551	713X551/200	Z40	75435627	9324922014596	10	\$11.17	
200 x 551	713X551/200	Z60	75435628	9324922014602	10	\$10.31	
200 x 551	713X551/200	Z80	75435629	9324922014619	10	\$9.87	
200 x 551	713X551/200	Z100	75437073	9324922014626	10	\$10.20	

Size mm	Description		Article No.	Barcode		List Price ea. \$	Image
Floor Sanding Products (continued)							
Floor Sanding Belts - Zirconia - Heavy Duty (continued)						\$10.20	
200 x 750	713X750/200	Z24	75435634	9324922014640	5	\$15.33	
200 x 750	713X750/200	Z36	75435635	9324922014657	5	\$13.96	
200 x 750	713X750/200	Z40	75435636	9324922014664	10	\$12.37	
200 x 750	713X750/200	Z60	75435637	9324922014671	10	\$10.79	
200 x 750	713X750/200	Z80	75435638	9324922014688	10	\$10.18	
200 x 750	713X750/200	Z100	75419898	9324922014695	10	\$10.18	
200 x 750	713X750/200	Z120	75435639	9324922014701	10	\$10.18	
250 x 750	713X750/250	Z24	75435653	9324922014718	5	\$18.77	
250 x 750	713X750/250	Z36	75413592	9324922014725	5	\$17.09	
250 x 750	713X750/250	Z40	75435654	9324922014732	10	\$15.12	
250 x 750	713X750/250	Z60	75435655	9324922014749	10	\$12.68	
250 x 750	713X750/250	Z80	75413593	9324922014756	10	\$11.86	
250 x 750	713X750/250	Z100	75435656	9324922014763	10	\$11.86	
250 x 750	713X750/250	Z120	75435657	9324922014770	10	\$11.86	
300 x 750	713X750/300	Z24	75435665	9324922014787	5	\$21.95	
300 x 750	713X750/300	Z36	75435666	9324922014794	5	\$19.97	
300 x 750	713X750/300	Z40	75435667	9324922014800	10	\$17.39	
300 x 750	713X750/300	Z60	75435668	9324922014817	10	\$14.43	
300 x 750	713X750/300	Z80	75435669	9324922014824	10	\$13.57	
300 x 750	713X750/300	Z100	75435670	9324922014831	10	\$13.57	
300 x 750	713X750/300	Z120	75435671	9324922014848	10	\$13.57	
300 x 800	713X800/300	Z24	75435679	9324922014855	5	\$23.02	
300 x 800	713X800/300	Z36	75435680	9324922014862	5	\$20.96	
300 x 800	713X800/300	Z40	75435681	9324922014879	10	\$18.38	
300 x 800	713X800/300	Z60	75435682	9324922014886	10	\$15.12	
300 x 800	713X800/300	Z80	75435683	9324922014893	10	\$14.13	
300 x 800	713X800/300	Z100	75435684	9324922014909	10	\$14.13	
300 x 800	713X800/300	Z120	75435685	9324922014916	10	\$14.13	
Floor Sanding Edger Discs - Paper							
178	CMBDISC178	P24	75600569	9324922006324	50	\$1.68	
178	CMBDISC178	P36	75600570	9324922006331	50	\$1.60	
178	CMBDISC178	P40	75601095	9324922014923	50	\$1.51	
178	CMBDISC178	P60	75600577	9324922014930	50	\$1.07	
178	CMBDISC178	P80	75600578	9324922014947	50	\$1.07	
178	CMBDISC178	P100	75600574	9324922006379	50	\$1.15	
178	CMBDISC178	P120	75600575	9324922006386	50	\$1.15	
178	CMBDISC178	P150	75600576	9324922006393	50	\$1.15	
Floor Sanding Edger Discs - Cloth							
178	GXKDISC178	P24	75600735	9324922014954	50	\$1.80	
178	GXKDISC178	P36	75600736	9324922016613	50	\$1.73	
178	GXKDISC178	P40	75600737	9324922014978	50	\$1.51	
178	GXKDISC178	P60	75600738	9324922016620	50	\$1.15	
178	GXKDISC178	P80	75600739	9324922014992	50	\$1.15	
178	GXKDISC178	P100	75600734	9324922015005	50	\$1.15	
178	GXKDISC178	P120	75601575	9324922015012	50	\$1.15	
Floor Sanding Polyvac Discs - Paper							
406	FKADISC406	P24	75600890	9324922015029	50	\$7.07	
406	FKADISC406	P36	75600891	9324922015036	50	\$6.42	
406	FKADISC406	P40	75600892	9324922015043	50	\$5.85	
406	FKADISC406	P60	75600893	9324922015050	50	\$4.84	
406	FKADISC406	P80	75600894	9324922015067	50	\$4.35	
406	FKADISC406	P100	75600895	9324922015074	50	\$4.05	
406	FKADISC406	P120	75600896	9324922015081	50	\$4.05	
406	FKADISC406	P150	75600897	9324922015098	50	\$4.05	

Size mm	Description		Article No.	Barcode		List Price ea. \$	Image
Floor Sanding Products (continued)							
Floor Sanding Screenback Discs							
406	SCREEN406	P80	75600899	9324922015111	10	\$8.69	
406	SCREEN406	P100	75600900	9324922015128	10	\$8.69	
406	SCREEN406	P120	75600901	9324922015135	10	\$8.69	
406	SCREEN406	P150	75600902	9324922015142	10	\$8.69	
406	SCREEN406	P180	75600903	9324922015159	10	\$8.69	
Floor Sanding Silverline Sheets - Aluminium Oxide Paper							
200 x 514	FKASHTS514	P24	75600874	9324922006409	50	\$4.71	
200 x 514	FKASHTS514	P36	75600875	9324922006416	50	\$4.35	
200 x 514	FKASHTS514	P40	75600876	9324922006423	50	\$4.05	
200 x 514	FKASHTS514	P60	75600877	9324922006430	50	\$3.53	
200 x 514	FKASHTS514	P80	75600878	9324922006447	50	\$3.24	
200 x 514	FKASHTS514	P100	75600879	9324922006454	50	\$3.04	
200 x 514	FKASHTS514	P120	75600880	9324922006461	50	\$3.04	
200 x 514	FKASHTS514	P150	75600881	9324922006478	50	\$3.04	
Floor Sanding Clarke Sheets - Aluminium Oxide Paper							
200 x 475	FKASHTS475	P24	75600882	9324922006485	50	\$4.45	
200 x 475	FKASHTS475	P36	75600883	9324922006492	50	\$4.18	
200 x 475	FKASHTS475	P40	75600884	9324922006508	50	\$3.89	
200 x 475	FKASHTS475	P60	75600885	9324922006515	50	\$3.31	
200 x 475	FKASHTS475	P80	75600886	9324922006522	50	\$3.04	
200 x 475	FKASHTS475	P100	75600887	9324922006539	50	\$2.82	
200 x 475	FKASHTS475	P120	75600888	9324922006546	50	\$2.82	
200 x 475	FKASHTS475	P150	75600889	9324922006553	50	\$2.82	
Floor Sanding Zirconia Cloth Rolls							
203 x 25M	DZYROLL203	Z24	75601483	9324922015166	1	\$280.40	
203 x 25M	DZYROLL203	Z36	75601482	9324922015173	1	\$246.53	
203 x 25M	DZYROLL203	Z40	75601188	9324922015180	1	\$244.64	
203 x 25M	DZYROLL203	Z60	75601481	9324922015197	1	\$213.58	
203 x 25M	DZYROLL203	Z80	75601581	9324922015517	1	\$198.53	
254 x 25M	DZYROLL254	Z24	75601562	9324922015203	1	\$350.02	
254 x 25M	DZYROLL254	Z36	75601563	9324922015210	1	\$339.50	
254 x 25M	DZYROLL254	Z40	75601564	9324922015227	1	\$305.80	
254 x 25M	DZYROLL254	Z60	75601565	9324922015234	1	\$294.00	
254 x 25M	DZYROLL254	Z80	75601941	9324922016477	1	\$273.30	
305 x 25M	DZYROLL305	Z24	75601471	9324922015241	1	\$419.65	
305 x 25M	DZYROLL305	Z36	75601470	9324922015258	1	\$369.78	
305 x 25M	DZYROLL305	Z40	75601489	9324922015265	1	\$366.96	
305 x 25M	DZYROLL305	Z60	75601480	9324922015272	1	\$319.91	
305 x 25M	DZYROLL305	Z80	75601582	9324922015524	1	\$297.33	
Floor Sanding Silicon Carbide Paper Rolls							
203 x 50M	CMBROLL203	P40	75601518	9324922015289	1	\$333.09	
203 x 50M	CMBROLL203	P60	75601466	9324922015296	1	\$282.27	
203 x 50M	CMBROLL203	P80	75601467	9324922015302	1	\$262.51	
203 x 50M	CMBROLL203	P100	75601468	9324922015319	1	\$249.35	
203 x 50M	CMBROLL203	P120	75601500	9324922015326	1	\$249.35	
203 x 50M	CMBROLL203	P150	75601519	9324922015333	1	\$249.35	
254 x 50M	CMBROLL254	P40	75601520	9324922015340	1	\$416.82	
254 x 50M	CMBROLL254	P60	75601219	9324922015357	1	\$353.78	
254 x 50M	CMBROLL254	P80	75601220	9324922015364	1	\$327.44	
254 x 50M	CMBROLL254	P100	75601453	9324922015371	1	\$312.38	
254 x 50M	CMBROLL254	P120	75601521	9324922015388	1	\$312.38	
254 x 50M	CMBROLL254	P150	75601522	9324922015395	1	\$343.60	
305 x 50M	CMBROLL305	P40	75601501	9324922015401	1	\$550.70	
305 x 50M	CMBROLL305	P60	75601454	9324922015418	1	\$424.35	
305 x 50M	CMBROLL305	P80	75601455	9324922015425	1	\$393.31	
305 x 50M	CMBROLL305	P100	75601456	9324922015432	1	\$374.49	
305 x 50M	CMBROLL305	P120	75601502	9324922015449	1	\$374.49	
305 x 50M	CMBROLL305	P150	75601517	9324922015456	1	\$374.49	

Safety Recommendations For The Use Of Abrasives

The recommendations shown should be followed by all users of abrasive products in the interest of their personal safety.

GENERAL PRINCIPLES OF SAFETY

Abrasive products improperly used can be very dangerous.

- Always follow the instructions provided by the abrasive product and machine supplier.
- Ensure that the abrasive product is suitable for its intended use. Examine all abrasive products for damage or defects before mounting.
- Follow the correct procedures for handling and storage of abrasive products.

Be aware of the hazards likely during the use of abrasive products and observe the recommended precautions to be taken:

- Bodily contact with the abrasive product at operating speed.
- Injury resulting from product breakage during use.
- Grinding debris, sparks, fumes and dust generated by the grinding process.
- Noise.
- Vibration.

Use only abrasive products conforming to the highest standards of safety. These products will bear the Australian standard AS: 1788 number and/or the inscription "oSa".

Employers should carry out a risk assessment on all individual abrasive processes to determine the appropriate protective measures necessary. They should ensure that their employees are suitably trained to carry out their duties.

This information is only intended to provide basic safety recommendations. More detailed information on the safe use of abrasive products, comprehensive Safety Codes are available from FEPA or your National Trade Association:

- FEPA Safety Code for Bonded Abrasives and Precision Superabrasives.
- FEPA Safety Code for Superabrasives for Stone and Construction.
- FEPA Safety Code for Coated Abrasives.

PRECAUTIONS AGAINST LIKELY HAZARDS

Bodily contact with the abrasive product

- Always take great care and attention when using abrasive products. Tie back long hair and do not wear loose clothing, ties and jewellery.
- Prevent accidental start-up of the machine before mounting or changing an abrasive product. Isolate machines from their power source where necessary.
- Never remove guards from machines where fitted and ensure they are in good condition and properly adjusted before starting the machine.
- Always use gloves and suitable clothing where the workpiece or machine is hand-held. For gloves, a minimum protection level of EN 388 Category 2 is recommended.
- After switching off the machine, ensure the product has come to rest before leaving the machine unattended. Injury caused by product breakage
- Always handle abrasives with great care, they are easily damaged. Examine all products for defects or damage before use.
- Store abrasives in dry, frost-free conditions avoiding wide variations in temperature. Ensure they are properly protected and supported to prevent damage and distortion.
- Coated abrasives should be stored at 18-22° C, 45-65% relative humidity.
- Abrasive belts should be hung on a rod or peg not less than 50mm diameter.
- Never use an abrasive product beyond its expiry date where marked. Observe the shelf life for the following specific products; Resinoid and Shellac products 3 years, Rubber products 5 years, Vitriified products 10 years.

Check abrasive product or package for any warnings or other safety information:



Not permitted for hand-held or manually-guided grinding

–

Only permitted for use on totally enclosed machines



Not permitted for wet grinding



Read the instructions



Not permitted for face grinding



Wear eye protection



Do not use if damaged



Wear hearing protection



Only permitted with a back-up pad



Wear gloves

–

Only permitted for wet cutting



Wear a respirator

Injury caused by product breakage

- Ensure that the correct abrasive product is selected. Never use a product if it cannot be properly identified.
- Follow the instructions provided by the abrasive product or machine supplier when mounting abrasive products. Observe any mounting indications marked on the product such as direction of run or mounting position.
- Never force the abrasive product onto the mounting fixture or modify it to fit.
- Never exceed the maximum operating speed where specified.
- Check that the correct mounting devices are used and that they are undistorted, clean and free from burrs.
- Use mounting blotters where supplied.
- Do not tighten the mounting device excessively.
- After mounting or re-mounting an abrasive product, conduct a trial run at operating speed with the guard in place for at least 30 seconds, standing clear of the machine before use.
- Never remove guards from machines where fitted and ensure they are in good condition and properly adjusted.
- Ensure that the workpiece is secure and properly supported. Ensure that work rests are properly adjusted and secure.
- Never start the machine with the workpiece in contact with the abrasive product.
- Never apply excessive force or shock to the abrasive product or let it overheat.
- Do not grind on the part of the product that is not designed for the operation. Avoid grinding with the edge of abrasive belts, use the centre of the belt if possible.
- Avoid clogging and uneven wear to ensure that the abrasive product is working efficiently. Dress frequently where appropriate.
- Let the abrasive product stop naturally, not by applying pressure to its surface.
- Turn off and spin out excess coolant before stopping the machine.
- Do not leave abrasive belts under tension when not in use.

Grinding debris – sparks, dust and fumes

- Exposure to dust generated from workpiece and/or abrasive materials can result in lung damage and/or other physical injury
- All dry grinding processes should be provided with adequate extraction facilities.
- Do not use abrasive products near flammable materials.
- The use of respirators complying with EN149 is recommended for dry grinding processes even if extraction systems are provided.
- Guards where provided should be adjusted to deflect sparks and debris away from the operator.
- Take additional measures to protect people working nearby.
- Eye protection is recommended for all machine applications for abrasives. For hand-held machines or workpiece, goggles or full-face shields are recommended.
- Eye protection with a minimum protection of EN166 Grade B is recommended.
- Ensure that the correct abrasive product is selected. An unsuitable product can produce excessive debris and dust.

Noise

- Ear protection complying with EN352 is recommended for all applications where the workpiece or machine is hand-held, irrespective of the noise level.
- Ensure that the correct abrasive product is selected. An unsuitable product can produce excessive noise and vibration
- Processes where the workpiece or machine is hand-held can cause vibration injury.
- Action needs to be taken if tingling, pins and needles or numbness is experienced after 10 minutes continuous use of the abrasive product.
- The effects of vibration are more pronounced in cold conditions so keep the hands warm and exercise hands and fingers regularly. Use modern equipment with low vibration levels.
- Maintain all equipment in good condition and stop the machine and have it checked if excessive vibration occurs.
- Use good quality abrasive products and keep them in good condition during their life.
- Maintain mounting flanges and back-up pads in good condition and replace if worn or distorted.
- Do not grip the workpiece or machine too tightly and do not exert excessive pressure on the abrasive product.
- Avoid continuous use of the abrasive product.
- Use the correct product. An unsuitable product can produce excessive vibration.
- Don't ignore the physical symptoms of vibration - seek medical advice.

Disposal of abrasives

- Used or defective abrasives should be disposed in accordance with local or national regulations.
- Further information can be obtained from material safety data sheets provided by the supplier.
- Be aware that the abrasive product may be contaminated with material from the workpiece or process after use.
- Disposed abrasive products should be damaged to prevent them from being taken from waste skips and reused.

Important Notice:

Every effort has been made to ensure that all information supplied in this "Safety Recommendations For The Use Of Abrasives" section is accurate and up to date. PFERD Australia Pty. Ltd. cannot accept responsibility for any error or omission, nor for any consequential loss or damage that may arise.

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Symbols used in this publication

Symbol

Description



Recommended for High Powered Angle Grinders.



Recommended for Stainless Steel: Does not contain Iron, Sulphur or Chlorine fillers.

N!

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Product Guide 2012 - Pricing

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