

KIMBLE

TUBES & ACCESSORIES

The NMR Tube of Choice!

Concentricity



Please see the cross reference chart on the inside back cover of this brochure to select the Kimble Chase brand NMR tube that will best serve your application.

Kimble Chase Superior Quality

Kimble Chase has provided superior quality NMR tubes to the marketplace for 40+ years. Manufactured from KIMAX™ ASTM Type 1 borosilicate glass, their performance is guaranteed by state of the art manufacturing and inspection processes that check for the Big 3 in NMR tube manufacturing: wall thickness, concentricity and camber.

Glass Specifications

KIMAX™ ASTM Type 1 Class A borosilicate glass has a high degree of thermal shock and a low coefficient of expansion. This 33 expansion borosilicate glass is indicated for use in applications with large temperature changes and in various sealing techniques.

KIMAX™ ASTM Type 1 Class B borosilicate glass has a low coefficient of expansion (51 expansion) for large temperature changes.

Features & Benefits

Closely monitored wall thickness	→	Consistent reproducible results
Carefully gauged wall uniformity (measured at ends of tube during rotation)	→	Reduced change of modulation sidebands and better concentricity
Carefully gauged tube straightness (measure of deflection at the middle of rotating tube)	→	Tubes with low camber deviations are ideal for higher frequency NMR spectrometers
33 expansion borosilicate is the lowest thermal expansion glass tubing	→	Highest degree of thermal shock resistance for high temp applications and sealing to manifolds
51 expansion borosilicate is a low thermal expansion glass tubing	→	Ideal for ambient temperature applications
Thrift, disposable and high quality tubes available	→	Tubes for every laboratory budget
3mm, 5mm and 10mm tubes	→	Tubes for every NMR application
Caps, plugs, septa, racks, and tube washers	→	One stop shopping for all of your NMR needs

"Kontes Brand NMR Tubes are designed for repeated use in all manufacturers' spectrometers."

About the Cover

NMR lab photo courtesy of Dr. Zhicheng (Paul) Xia, University of British Columbia, Canada.



Highest Quality 5mm NMR Tubes

Highest Quality 5mm Tubes, 33 Expansion Borosilicate Glass

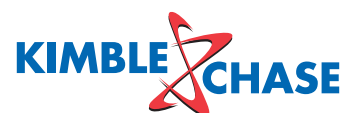
Each and every precision 5mm NMR tube is 100% gauged to meet the most exacting standards. These tubes are ideal for sealing directly to vacuum manifolds, joints or valves. Caps attached.

Kimble Chase Catalog No.	Wilmad Equivalent	Approx. MHz	Length, Inches	— Wall Thickness —		— Concentricity —		— Camber —		Case Qty.
				Inches	mm	T.I.R. Inches	T.I.R. Microns	T.I.R. Inches	T.I.R. Microns	
897250-3000	542-PP-7	900	7	0.01475	0.38	0.0002	5	0.00015	3.8	5
897250-3008	542-PP-8		8	0.01475	0.38	0.0002	5	0.00015	3.8	5
897245-3000	541-PP-7	800	7	0.01475	0.38	0.0002	5	0.00015	3.8	5
897245-3008	541-PP-8		8	0.01475	0.38	0.0002	5	0.00015	3.8	5
897241-0000	535-PP-7	600-700	7	0.01475	0.38	0.0005	13	0.00025	6	5
897241-0008	535-PP-8		8	0.01475	0.38	0.0005	13	0.00035	9	5
897241-0009	535-PP-9		9	0.01475	0.38	0.0005	13	0.00045	11	5
897240-0000	528-PP-7	500	7	0.01475	0.38	0.0005	13	0.00025	6	5
897240-0008	528-PP-8		8	0.01475	0.38	0.0005	13	0.00035	9	5
897240-0009	528-PP-9		9	0.01475	0.38	0.0005	13	0.00045	11	5
897235-0000	527-PP-7	400	7	0.01475	0.38	0.001	25	0.0005	13	5
897235-0008	527-PP-8		8	0.01475	0.38	0.001	25	0.0006	15	5
897235-0009	527-PP-9		9	0.01475	0.38	0.001	25	0.0007	18	5
897230-0000	526-PP-7	300	7	0.01475	0.38	0.0015	38	0.001	25	5
897230-0008	526-PP-8		8	0.01475	0.38	0.0015	38	0.0011	28	5
897225-0000	507-PP-7	200	7	0.01475	0.38	0.002	51	0.0005	13	5
897225-0008	507-PP-8		8	0.01475	0.38	0.002	51	0.0006	15	5
897225-0009	507-PP-9		9	0.01475	0.38	0.002	51	0.0007	18	5
897220-0000	—	150	7	0.01475	0.38	0.002	51	0.001	25	5
897220-0008	—		8	0.01475	0.38	0.002	51	0.0011	28	5
897205-0000	506-PP-7	100	7	0.01475	0.38	0.0025	64	0.002	51	5
897205-0008	506-PP-8		8	0.01475	0.38	0.0025	64	0.002	51	5
897205-0009	506-PP-9		9	0.01475	0.38	0.0025	64	0.002	51	5
897200-0000	505-PP-7	100	7	0.01475	0.38	0.003	76	0.002	51	5
897200-0008	505-PP-8		8	0.01475	0.38	0.003	76	0.002	51	5
897200-0009	505-PP-9		9	0.01475	0.38	0.003	76	0.002	51	5

O.D., inches — 0.1955 (+0.0000 / -0.0005) O.D., mm — 4.97 (+0.000 / -0.013)
I.D., inches — 0.1655 (+0.0005 / -0.0000) I.D., mm — 4.20 (+0.013 / -0.0000)

Our precise, consistent tolerances give you the kind of accuracy you need.

Our prices provide outstanding value.



3mm and 5mm NMR Tubes



**Thrift &
Disposable Grade**

Thrift 5mm Tubes, 51 Expansion Borosilicate Glass, Caps Attached

Kimble Chase brand thrift tubes are manufactured from **KIMAX™ 51 expansion borosilicate glass** and their performance is assured by state of the art manufacturing and inspection processes for camber and concentricity. Caps attached.

Kimble Chase Catalog No.	Wilmad Equivalent	Approx. MHz	Length, Inches	— Wall Thickness —		— Concentricity —		— Camber —		Case Qty.
				Inches	mm	T.I.R. Inches	T.I.R. Microns	T.I.R. Inches	T.I.R. Microns	
897150-0007	WG-1235-7	500	7	0.01475	0.38	0.0005	13	0.00025	6	5
897150-0008	WG-1235-8	500	8	0.01475	0.38	0.0005	13	0.00035	9	5
897140-0007	WG-1228-7	400	7	0.01475	0.38	0.0005	13	0.00025	6	5
897140-0008	WG-1228-8	400	8	0.01475	0.38	0.0005	13	0.00035	9	5
897130-0007	WG-1226-7	300	7	0.01475	0.38	0.0015	38	0.001	25	5
897130-0008	WG-1226-8	300	8	0.01475	0.38	0.0015	38	0.0011	28	5
897120-0007	WG-1208-7	200	7	0.01475	0.38	0.002	51	0.0005	13	5
897120-0008	WG-1208-8	200	8	0.01475	0.38	0.002	51	0.0006	15	5
897110-0007	WG-1206-7	>200	7	0.01475	0.38	0.002	51	0.001	25	5
897110-0008	WG-1206-8	>200	8	0.01475	0.38	0.002	51	0.0011	28	5



Disposable Grade 5mm Tubes, 51 Expansion Borosilicate Glass

Disposable grade NMR tubes. Each tube is supplied without sandblasted marking spot in a bundled multi-pack. Caps included but not attached.

Kimble Chase Catalog No.	Wilmad Equivalent	Approx. MHz	Length, Inches	Wall Thickness (in.)	Case Qty.
897193-0000	WG-5mm-Economy-7	100	7	0.015	25
897193-0008	WG-5mm-Economy-8	100	8	0.015	25
897193-0050	WG-1000-7-50	100	7	0.015	50
897193-7100	WG-1000-7-100	100	7	0.015	100
897193-8050	WG-1000-8-50	100	8	0.015	50
897193-8100	WG-1000-8-100	100	8	0.015	100

Multi-pack tubes are available in any quantity that works for you.

888-546-2531
more information



Highest Quality 3mm Tubes, 33 Expansion Borosilicate Glass, Caps Attached

Kimble Chase Catalog No.	Wilmad Equivalent	Approx. Mhz	Length Inches	Wall Thickness (in.)	Concentricity T.I.R.*	Camber T.I.R.*	Case Qty.
897840-0000	335-PP-7	600-800	7	0.01118	0.0005	0.00025	5
897840-0008	335-PP-8		8	0.01118	0.0005	0.00035	5
897835-0000	328-PP-7	500	7	0.01118	0.0010	0.0005	5
897835-0008	328-PP-8		8	0.01118	0.0010	0.0006	5
897830-0000	327-PP-7	400	7	0.01118	0.0015	0.0010	5
897825-0000	-	300	7	0.01118	0.0020	0.0005	5
897820-0008	307-PP-8		8	0.01118	0.0020	0.0011	5
897805-0000	305-PS-7	100	7	0.01118	0.0025	0.0020	5
897800-0000	305-PS-7	80	7	0.01118	0.0030	0.002	5
897800-0008	305-PS-8		8	0.01118	0.0030	0.002	5

O.D. inches— 0.1186" (+0.0000/-0.0005) I.D. inches— 0.0945" (+0.0005/-0.0000)

*T.I.R. = Total Indicator Reading in inches

10mm NMR Tubes

Disposable Grade 10mm Flat Bottom Tubes, 51 Expansion Borosilicate Glass, without Caps

Kimble Chase Catalog No.	Approx. Mhz	Length Inches	Wall Thickness (in.)	Case Qty.
897300-0000	100	7	0.015	50
897300-0008	100	8	0.015	50

Highest Quality 10mm Tubes, 33 Expansion Borosilicate Glass, Caps Attached

Kimble Chase Catalog No.	Wilmad Equivalent	Approx. Mhz	Length Inches	Wall Thickness (in.)	Concentricity T.I.R.*	Camber T.I.R.*	Case Qty.
897335-0000	513-7PP-7	360	7	0.0182	0.0015	0.0005	1
897335-0008	513-7PP-8	360	8	0.0182	0.0015	0.0005	1
897330-0000	513-5PP-7	150	7	0.0182	0.0020	0.0010	1
897330-0008	513-5PP-8	150	8	0.0182	0.0020	0.0010	1
897325-0000	513-3PP-7	80	7	0.0182	0.0030	0.0015	1
897320-0000	513-1PP-7	60	7	0.0182	0.0090	0.0020	1
897320-0008	513-1PP-8	60	8	0.0182	0.0090	0.0020	1

O.D. INCHES - 0.3937 (+0.0000/-0.0005) I.D. INCHES - 0.3569 (+0.0005/-0.0000)

**T.I.R. = TOTAL INDICATOR READING IN INCHES.

897300

Red Rubber Septa for 10mm Tubes

- Dual Seal, inside tube and outer sleeve
- Ideal for thin wall tubes
- Provides penetration point for syringe or cannulation additions

Useful as a closure or for sample outgassing. Soft, natural, red rubber allows easy penetration with a syringe needle.

Kimble Chase Catalog No.	Fits Tube Size (mm)	Color	Case Qty.
897098-0010	10	red	100



897098

Highest Quality Round Bottoms

897320
897325
897330
897335

Polyethylene Pressure Caps in Assorted Colors for 10mm Tubes

A tight-fitting, polyethylene cap which stays in place even with a build-up of internal vaporization pressures.

Kimble Chase Catalog No.	Wilmad Equivalent	Fits Tube Size (mm)	Color	Case Qty.
897095-1001	521-C	10	red	100
897095-1021	521-C	10	black	100
897095-1071	521-C	10	green	100
897095-1081	521-C	10	yellow	100

Kimble Chase Catalog No.	Wilmad Equivalent	Fits Tube Size (mm)	Color	Case Qty.
897095-1011	-	10	assorted	100



897095

KIMBLE CHASE

NMR Specialty Tubes

Valved tubes make it easier to study difficult compounds.

897435

Threaded tubes facilitate reaction studies and sample storage.

897635

897735

Seal-off tubes protect against sample degradation.

897750

Valved 5mm Tubes

Kimble Chase brand valved NMR tubes are designed to improve sample handling during the investigation of volatile, air-sensitive or toxic compounds. Condensation of sample occurs directly into the NMR tube through the use of vacuum techniques. A special KONTES brand HI-VAC® valve maximizes sample recovery and permits resealing as opposed to the permanent "seal-off" method.

The HI-VAC valve features a borosilicate glass body and PTFE plug so that the sample is in contact with inert materials. The valve is greaseless, thereby eliminating the risk of sample contamination. The rotationally symmetrical design, with two lateral ports located near the valve seat, permits use at higher temperatures. A glass tube with a FKM o-ring seal is used to connect the valved NMR tube to a vacuum system.

All sizes are precision grade and suitable for use in instruments with field strengths greater than 360 MHz.

Kimble Chase Catalog No.	Tube Diam. (mm)	Length Inches	Wall Thickness (in.)	Concentricity T.I.R.*	Camber T.I.R.*	Case Qty.
897435-0000	5	7	0.01475	0.0010	0.0005	1
897435-0008	5	8	0.01475	0.0010	0.0006	1

Threaded 5 and 10mm Tubes with Caps and Septa

Ideal for use with air-sensitive samples and reaction studies where compounds may be added via syringe through the septum cap. For use in instruments with field strengths greater than 360 MHz. Borosilicate glass.

Kimble Chase Catalog No.	Wilmad Equivalent	Description	Tube O.D.(mm)	Approx. Overall Length Inches	Case Qty.
897635-0800	513-7TRA-7	NMR Tube, 8-425 Thread	5	7.5	1

Seal-Off 5mm NMR Tubes

Kimble Chase brand seal-off NMR tubes provide the best security against sample degradation during the investigation of volatile, air-sensitive or toxic compounds.

Manufactured from ASTM Type 1 Class A borosilicate glass. Overall length is 9". Construction opening 0.5 to 2.0 mm and is located 1.8" from the cap end of the tube leaving a 7.2" long tube after seal-off.

Each tube is supplied with a polyethylene cap and features a sand blasted marking spot for easy identification.

Kimble Chase Catalog No.	Approx. MHz	Length, Inches	Wall Thickness (in.)	Wall Variation T.I.R.	Camber	Case Qty.
897750-0245	>800	7.2	0.01475	0.0002	0.00015	5
897750-0240	>400	7.2	0.01475	0.0005	0.00025	5
897750-0235	>360	7.2	0.01475	0.0010	0.0005	5

*T.I.R. = TOTAL INDICATOR READING IN INCHES.

Accessories

NMR Sealing Manifold

Now there is an easy way to evacuate and tip-off NMR tubes without additional sealing to other glass apparatus. NMR single and double port sealing manifolds have KONTES brand HI-VAC® valves for individually controlling each port. The double port manifold permits sealing one tube while the other remains under vacuum.

The NMR manifolds feature a BEVEL-SEAL™ threaded connection and a specially designed cap with an aluminum shield for heat deflection. Insert the NMR tube through the open top cap, place the o-ring over the open end of the tube, insert the tube into the BEVEL-SEAL thread, and tighten the cap onto the thread to make a vacuum seal.

The longer 5mm NMR tubes, 8 and 9 inch, are recommended for use with manifolds. A #2 hose connection is used for attaching the vacuum line (vacuum tubing is recommended). All o-rings supplied are FKM. Valve plugs are 826501-0008.

Kimble Chase Catalog No.	Description	O-Ring Size Shaft - Tip	Case Qty.
897047-0001	NMR Manifold Complete	110 - 011	1

Component Parts

897048-0001	NMR Manifold Only, Single	110 - 011	1
897049-0005	Cap, Shielded No. 5 Thread, Size 106 O-Ring		1



897047

Sealing manifolds provide easy, fast and economical ways to evacuate and seal NMR tubes.

Polypropylene Sample Tube Rack

Polypropylene rack with carrying handles features an upper deck with holes and a lower deck support for tube ends. Dimensions: 8 3/8"L x 4 1/2"W x 8 3/4"H. -

Kimble Chase Catalog No.	Accommodates	Case Qty.
897080-0005	72 - 3 or 5 mm tubes	1



897080

Accessories



897096

Sample Tube Pressure Caps, PTFE, for 3 and 5mm Tubes

NMR Tube caps for use with any 3 or 5mm NMR tubes. These PTFE caps are precision machined and offer the user a means of universal solvent compatibility. The caps are sold in packages of 25.

Kimble Chase Catalog No.	Fits Tube Size (mm)	Color	Case Qty.
897096-0003	3	White	25
897096-0005	5	White	25



897093

897095

Assortment Packs include a variety of colors in each pack.

Polyethylene Pressure Caps in Assorted Colors for 3, 5 and 10mm Tubes

A tight-fitting, polyethylene cap which stays in place even with a build-up of internal vaporization pressures.

Kimble Chase Catalog No.	Wilmad Equivalent	Fits Tube Size (mm)	Color	Case Qty.
897093-0001	-	3	red	100
897095-0001	521	5	red	100
897095-0021	521	5	black	100
897095-0061	521	5	white	100
897095-0071	521	5	green	100
897095-0081	521	5	yellow	100
897095-1001	521-C	10	red	100
897095-1021	-	10	black	100
897095-1071	521-C	10	green	100
897095-1081	521-C	10	yellow	100

Kimble Chase Catalog No.	Wilmad Equivalent	Fits Tube Size (mm)	Color	Case Qty.
897095-0011	-	5	assorted (20 each of red, black, white, green and yellow)	100
897095-1011	-	10	assorted (25 each of red, black, green and yellow)	100
897095-0012	-	5	assorted (100 each of red, black, white, green, blue and yellow)	600



897098

Red Rubber Septa for 5, 7 and 10mm Tubes

- Dual Seal, inside tube and outer sleeve
- Ideal for thin wall tubes
- Provides penetration point for syringe or cannulation additions

Useful as a closure or for sample outgassing. Soft, natural, red rubber allows easy penetration with a syringe needle.

Kimble Chase Catalog No.	Fits Tube Size (mm)	Color	Case Qty.
897098-0005	5	red	100
897098-0007	7	red	100
897098-0010	10	red	100



897097

White Rubber Septa for 5mm Tubes

Useful as a closure or for sample outgassing. Soft, natural rubber allows easy penetration with a syringe needle.

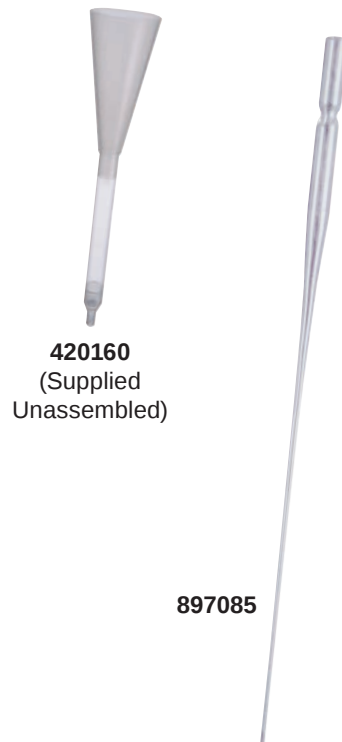
Kimble Chase Catalog No.	Wilmad Equivalent	Fits Tube Size (mm)	Case Qty.
897097-0001	521-S	5	100

Accessories

Polypropylene Funnel

Polypropylene construction with a lower fitting sized to accommodate 5mm NMR tubes. Disposable feature eliminates the possibility of cross contamination. Filter is a polyethylene disc or glass wool. Complete set consists of a reservoir, a column and a lower fitting.

Kimble Chase Catalog No.	Description	Case Qty.
420160-0000	Funnel Set (Unassembled)	100
Replacement Parts		
420164-1000	Reservoir Only	50
420168-1000	Lower Fitting Only	50
Accessories		
420162-0000	Polyethylene Disc, 30-50 Microns	100
420162-0020	Polyethylene Disc, 20 Microns	100



Extended Tip Pipet

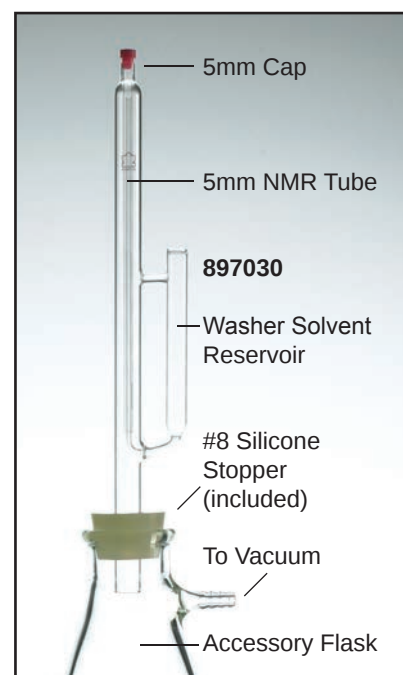
Extended tip NMR pipets for retrieving and adding sample in the NMR tube. Available in 7 and 9 inch tips.

Kimble Chase Catalog No.	Wilmad Equivalent	Description	Case Qty.
897085-0007	803	7" tip	100
897085-0009	803C	9" tip	100

Washer for 5mm NMR Tubes

Designed to fit standard filtration assemblies available in most labs. The cap is positioned on the 5mm NMR tube bottom and inserted into the washer. Aspirator suction provides the motivating force to direct solvent stream into the 5mm NMR tube. An air stream aids the drying process after solvent reservoir empties. Supplied with one #8 silicone stopper.

Kimble Chase Catalog No.	Description	Case Qty.
897030-0005	5mm NMR Tube Washer	1
Replacement Parts		
953763-0000	#8 Silicone Stopper, Pkg./ 5	5
Accessories		
953760-0000	1000 mL Filter Flask	1



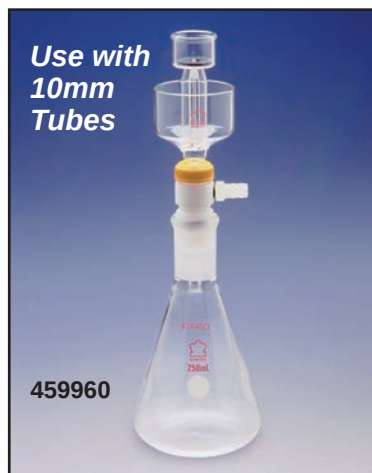
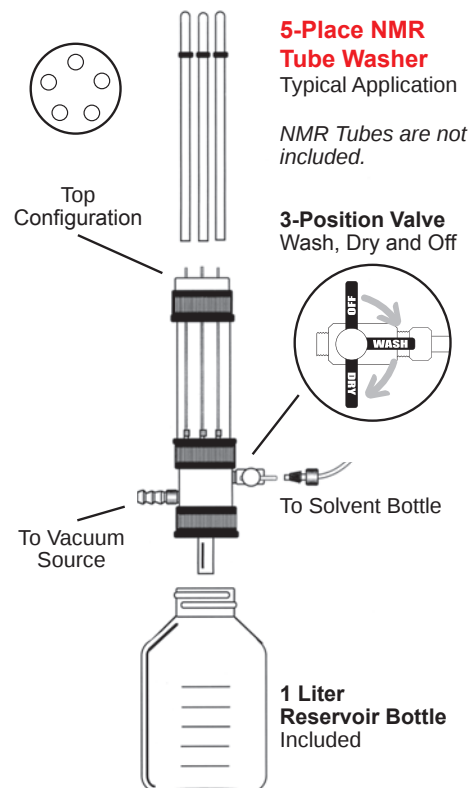
Accessories



5-Place NMR Tube Washer for 3mm and 5mm Tubes, Accommodates 7" and 8" Length Tubes

This design uses flexible PTFE tubing to direct a power wash stream of wash solvent to clean the inside of NMR tubes. A vacuum source (user supplied) is required. An o-ring is slipped over each tube to form a vacuum tight seal and is removed after washing. The complete unit is provided with a one liter reservoir bottle and all wetted parts are PTFE or borosilicate glass. When all tubes are positioned for cleaning, the wash valve is configured to either wash or dry; this action may easily be repeated, and cleaned tubes can be quickly removed for use.

Kimble Chase Catalog No.	Description	Case Qty.
897033-0003	3mm Tube Washer	1
897033-0005	5mm Tube Washer	1



NMR Tube Washer for 10mm Tubes, Cuvettes and Cells

Recommended for 10mm NMR tubes. For rapid, safe washing and drying of cuvettes, cells, tubes and small scale volumetric items up to approximately 22mm O.D. Operates efficiently on a conventional sink aspirator. Flushing is activated by lightly pressing the inverted cell onto a neoprene gasket. Complete unit is supplied with one gasket. Hose connection is #2.

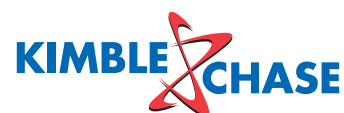
Kimble Chase Catalog No.	Adapter Size Joint	Flask Size Joint	Flask Cap.(mL)	Approx. Overall Height (mm)	Case Qty.
459960-0000	24/25	24/40	250	255	1

Catalog No.	Description	Case Qty.
459961-0000	Cuvette Washer Only	1
459951-0000	Neoprene Gasket, Pkg./12	12
179850-2224	Vacuum Adapter, Size 22, Size 24/25	1
617000-0424	Erlenmeyer Flask, Size 24/40, 250 mL	1

NMR Tube Cross Reference

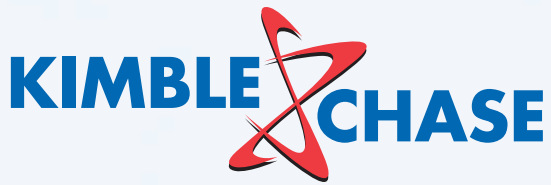
Kimble Chase	Wilmad	New Era	Norrell
897030-0005	-	NE-230-5	-
897033-0003	-	WG-232-3	-
897033-0005	-	WG-232-5	-
897047-0001	-	-	-
897048-0001	-	-	-
897049-0005	-	-	-
897080-0005	-	NE-330-5	-
897085-0007	803C	NE-201	-
897093-0001	-	NE-310-3	-
897095-0001	521	NE-310-5	-
897095-0011	-	-	-
897095-0012	-	-	-
897095-0021	521	-	-
897095-0061	521	-	-
897095-0071	521	-	-
897095-0081	521	-	-
897095-1001	521-C	NE-310-10	-
897095-1011	-	-	-
897095-1021	521-C	-	-
897095-1071	521-C	-	-
897095-1081	521-C	-	-
897096-0003	-	-	-
897096-0005	-	NE-312-5	-
897097-0001	521-S	-	-
897098-0005	-	-	-
897098-0007	-	-	-
897098-0010	-	-	-
897110-0007	WG-1206-7	NE-LL5-7	505-P-7
897110-0008	WG-1206-8	NE-LL5-8	505-P-8
897120-0007	WG-1208-7	NE-LL5-7	-
897120-0008	WG-1208-8	NE-LL5-8	-
897130-0007	WG-1226-7	NE-ML5-7	XR-55-7
897130-0008	WG-1226-8	NE-ML5-8	XR-55-8
897140-0007	WG-1228-7	NE-HL5-7	507-HP-7
897140-0008	WG-1228-8	NE-HL5-8	507-HP-8
897150-0007	WG-1235-7	NE-UL5-7	508-UP-7
897150-0008	WG-1235-8	NE-UL5-8	508-UP-8
897193-0000	WG-5mm-Economy-7	-	-
897193-0008	WG-5mm-Economy-8	-	-
897193-0050	WG-1000-7-50	NE-RG5-7	502-7
897193-7100	WG-1000-7-100	NE-RG5-8	502-8
897193-8050	WG-1000-8-50	-	ST-500-7
897193-8100	WG-1000-8-100	-	ST-500-8
897200-0000	505-PS-7	NE-LP5-7	-
897200-0008	505-PS-8	NE-LP5-8	-
897200-0009	505-PP-9	NE-LP5-9	-
897205-0000	506-PP-7	NE-LP5-7	-
897205-0008	506-PP-8	NE-LP5-8	-

Kimble Chase	Wilmad	New Era	Norrell
897205-0009	506-PP-9	NE-LP5-9	-
897220-0000	-	-	-
897220-0008	-	-	-
897225-0000	507-PP-7	NE-LP5-7	S-5-200-7
897225-0008	507-PP-8	NE-LP5-8	S-5-200-8
897225-0009	507-PP-9	NE-MP5-9	-
897230-0000	526-PP-7	NE-MP5-7	S-5-300-7
897230-0008	526-PP-8	NE-MP5-8	S-5-300-8
897230-0009	526-PP-9	NE-MP5-9	-
897235-0000	527-PP-7	NE-MP5-7	S-5-400-7
897235-0008	527-PP-8	NE-MP5-8	S-5-400-8
897235-0009	527-PP-9	NE-MP5-9	-
897240-0000	528-PP-7	NE-HP5-7	S-5-500-7
897240-0008	528-PP-8	NE-HP5-8	S-5-500-8
897240-0009	528-PP-9	NE-HP5-9	-
897241-0000	535-PP-7	NE-UP5-7	S-5-600-7
897241-0008	535-PP-8	NE-UP5-8	S-5-600-8
897241-0009	535-PP-9	NE-UP5-9	-
897245-3000	541-PP-7	NE-SP5-7	S-5-800-7
897245-3008	541-PP-8	NE-SP5-8	S-5-800-8
897250-3000	542-PP-7	NE-SP5-7	S-5-900-7
897250-3008	542-PP-8	NE-SP5-8	S-5-900-8
897300-0000	-	-	-
897300-0008	-	-	-
897320-0000	513-1PP-7	-	-
897320-0008	513-1PP-8	-	-
897325-0000	513-3PP-7	NE-L10-7	-
897330-0000	513-5PP-7	NE-L10-7	C-1005-P-7
897330-0008	513-5PP-8	NE-L10-8	C-1005-P-8
897335-0000	513-7PP-7	NE-H10-7	C-1008-UP-7
897335-0008	513-7PP-8	NE-H10-8	C-1008-UP-8
897435-0000	-	NE-CAV5-178	S-5-400-JY-7
897435-0008	-	NE-CAV5-203	S-5-400-JY-8
897635-0800	513-7TRA-7	-	-
897750-0235	-	-	-
897750-0240	-	NE-HP5-TTO	-
897750-0245	-	NE-UP5-TTO	-
897800-0000	305-PS-7	-	S-3-HT-7
897800-0008	305-PS-8	-	S-3-HT-8
897805-0000	305-PS-7	-	-
897820-0008	307-PP-8	-	S-3-300-8
897825-0000	-	-	S-3-300-7
897830-0000	327-PP-7	NE-H3-7	S-3-400-7
897835-0000	328-PP-7	NE-H3-7	S-3-500-7
897835-0008	328-PP-8	NE-H3-8	S-3-500-8
897840-0000	335-PP-7	-	S-3-800-7
897840-0008	335-PP-8	-	S-3-800-8





Contact Information

**Kimble Chase**

1022 Spruce Street
PO Box 1502
Vineland NJ 08362-1502

Call

1-888-546-2531 Ext. 1 (toll-free)
(+1) 856-692-8500 Ext. 1 (international)

Fax

(856) 692-3242 or (856) 794-9762
(856) 691-0271

Email

info@kimble-chase.com

Website

www.kimble-chase.com

Asia

Phone: +86.10.8739.5506,.5509,.1956
Fax: +86.10.8739.1990
Email: info@kimble-chase.com

EMEA

Phone: +49.3693.8136.0
Fax: +49.3693.8136.33
Email: info@kimble-chase.com

Latin America

Phone: +52.442.290.7444
Fax: +52.442.290.7442
Email: info@kimble-chase.com

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