



Thermal Solutions for Extreme Environments

application
engineering

design and
fabrication

testing and
qualification

Innovation. Performance. Protection.



www.newtex.com
ph: 800.836.1001



APPLICATION ENGINEERING

Newtex engineers and technical sales professionals collaborate with you throughout development.

- Assessment of application requirements
- Environmental analysis (thermal)
- Material performance criteria
- Coating performance criteria
- Analysis of layers and combinations
- Pattern and shape analysis
- Prototyping requirements
- Commercialization requirements

We work with your team to find the best solution, from initial application assessment to finished system.

NEWTEX ENGINEERED SYSTEMS (NES)

Newtex is a pioneer and leading global producer of high temperature textiles for thermal management and fire protection.

Over the past 30 years, we have built a unique expertise in managing heat and fire by listening to customers and leading innovation:

- 1978** Zetex® gains wide commercial acceptance as a texturized fiberglass alternative to asbestos.
- 1981** ZetexPlus® coating, a proprietary vermiculite formulation, extends performance to 2000°F.
- 1985** Newtex delivers its first "engineered system" - a fire curtain for a world famous theatre.
- 1990** Newtex expands into developing global markets.
- 2000** Newtex adds coatings and extends products into new application areas.
- 2010** Z-Flex™ multilayer aluminized fabrics are introduced incorporating the latest advances in radiant heat protection.

Our systems approach to solving challenging thermal problems and in depth expertise in textiles, coatings, and fabricated systems set us apart.

over thirty years of from Fire,

DESIGN & FABRICATION

The design process may begin with an abstract idea or a detailed system drawing. Our engineers and technical sales team listen carefully to your input before beginning a design.

Our design and fabrication capabilities include:

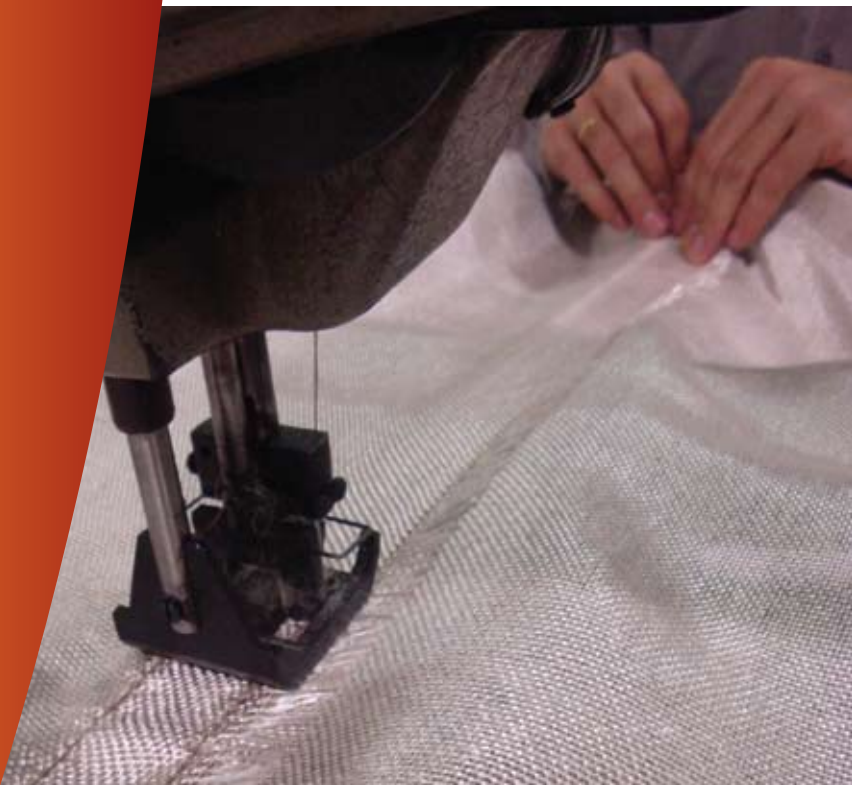
Design:

- CAD Support
- System prototyping
- Material and coating recommendations
- Composite layer recommendations
- Hardware recommendations
- SIR first article inspection
- Design for fabrication (optimization)

Fabrication:

- CNC cutting machines
- Heavy duty industrial presses
- Synchronized long arm sewing machines
- Specialized industrial sewing machines
- Custom seam and turning equipment
- Highly trained, experienced industrial sewers

From a simple system, to a fire expansion joint, to a job that calls for hundreds of OEM parts - let Newtex help you create a complete, high performance thermal system that gives you peace of mind.





NEWTEX

ENGINEERED SYSTEMS

Fire & Smoke Curtains

- Proscenium theater curtains
- Lighting border curtains
- Metal and glass pouring enclosures
- Isolation curtains for aircraft hangers
- Isolation curtains for public venues
- Zone curtains for heat processing operations

Fire Blankets and Pads

- Welding and hot works protection
- Plumber pads and mats
- Commercial & industrial fire blankets
- Lab safety and art glass pads

Heat Shields

- Military and civil aircraft
- Automotive, marine and transportation
- Agricultural vehicles
- Industrial equipment

Insulation Systems

- Tank, valve and piping insulation
- Turbine and engine covers
- Replaceable fabric expansion joint belts

Custom Personal Protection

- Aprons and bibs
- Custom designed high-temp apparel
- Suits and coveralls
- Hoods and boots
- Hand protection

proven protection Heat, and Smoke

TESTING AND QUALIFICATION SUPPORT

Our Technical services team has a full complement of thermal test equipment that allows preliminary assessment of design and final confirmation of system performance prior to outside certification. Highlights to testing capabilities include:

- New laboratory and test facility (2009)
- ISO 9001:2008 Certified
- Conductive and Convective Heat testing
- Radiant Heat Performance testing
- Vertical Flame testing
- Tensile Strength testing
- Taber Abrasion testing
- Wet Flex Laminate Adhesion testing

We coordinate with independent, certified labs to offer the following system certifications:

- North America: UL, NFPA, ASTM, CFM, US Mil-Spec
- European: BS, EN, CE
- Military & Government: US Mil-spec, NRC, BMS



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the most trusted name for over thirty years.

OUR COMPANY

As a trusted name in high temperature industries for over 30 years, Newtex is dedicated to:

- Innovation
- Quality
- Service
- World-class manufacturing

We operate in a modern, ISO 9001:2008 certified facility in Victor, NY.

OUR CUSTOMERS

Newtex Performance Materials and Engineered Systems are at work today in:

- US Military Aircraft & Naval Vessels
- North American Space Agency (NASA)
- US & International Oil & Natural Gas Plants
- Chemical & Nuclear Reactor Systems
- OEM & aftermarket Automotive Systems
- World famous Theatres & Auditoriums

OUR HISTORY

Newtex was founded in 1978 and produced the industry's first safe and commercially successful fiberglass textile alternatives to asbestos. Zetex & ZetexPlus have become the most trusted names for high quality, superior-performing heat resistant fiberglass fabrics. Over the past decade, Newtex has expanded its expertise into high temperature coatings and now offers high-value products for welding, shipbuilding, insulation, and radiant heat protection. Today, Newtex employs more than 50 personnel across three business units: Newtex Performance Materials (NPM), Newtex Extreme Protective Safety Apparel (NXP), and Newtex Engineered Systems (NES).

To learn more, Please visit our web site at www.newtex.com



Call us to discuss your
Extreme Temperature challenge.



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