

Newtex Coatings and Treatments

PERFORMANCE ENHANCING OPTIONS FOR YOUR HIGH TEMPERATURE REQUIREMENTS

Newtex offers over 20 standard coatings, treatments, and laminates that can be applied to most of our high temperature fabrics – including our original Zetex® fabric – to meet the performance requirements of your application. Select from coatings and laminates to boost resistance to vapor, weathering, oil, water, chemical attack, abrasion wear, flexural fatigue and UV radiation, or from treatments that improve handling and ease of fabrication. We can also combine coatings or apply advanced engineering and manufacturing to develop a custom solution for your application.

Applications: Removable Insulation, Lagging, Fabric Expansion Joints, Gasketing & Sealing, Welding & Equipment Protection, Stress Relieving, Fire & Heat Barriers, Protective Apparel, High Temperature Gloves & Mitts

Barriers

Add resistance to weather, chemicals, and oil

These coatings support high temperatures, resist chemicals and the elements, and are durable and easy to clean. Fabrics with these coatings are often used as the exterior (jacketing) layer for insulation pads or expansion joints, or as drop cloths or plasma spray blankets in welding applications. PTFE and Silicone coatings add thickness and weight to the fabric, changing the look and feel and enhancing performance, while our lighter Oil and Water Resistant coating is used in less severe conditions.

Description	Temperature Rating	Abrasion	Weather	Water	Chemicals	Oil	UV Light
Teflon (PTFE)	500 F° (260°C)	●	●	●	●	●	○
Silicone	500 F° (260°C)	●	●	●	◐	●	●
Oil & Water Resistant	1000 F° (538°C)	◐	○	○	○	○	◐

Note: Temperature rating for base fabric (Zetex texturized fiberglass) is 1000 F° (538 C°)

Fabrication Treatments

Enhance ease of handling and fabrication

Heat Cleaning removes binders, lubricants, and broken filaments from the fabric to reduce smoke generation, airborne fibers, and unraveling. Regular Treatment is a light acrylic coating applied on one side to provide similar benefits but without any loss in the fabric's physical strength. In Fab Treatment, one side of the fabric is lightly coated to improve weave stability and wear resistance. It is ideal for fabrics that need to be die cut. Heat cleaned, premium Zetex® in specific weights meets MIL-C-20079.

Description	Temperature Rating	Color	Reduced Smoke Generation	Less Irritation/ Airborne Fibers	Weave Stability
Heat Cleaned (HC)	Same as Fabric	Tan (Carmelized)	●	●	○
Regular Treatment (RT) / Color Dyed	1000°F (538°C)	White, Red, Yellow, Orange, Blue, Black, Green		◐	◐
Fab Treatment (FAB)	1000°F (538°C)	Cream		◐	●

Feature Comparison Key

● = Excellent ◐ = Very Good ○ = Good



Z-Flex® Aluminized Laminates

Add radiant heat and molten splash protection

Our Z-Flex Multilayer Aluminization (MLA) process ensures that the multilayer aluminum film remains bonded even when the fabric is flexed. They are often used in fabricated expansion joints, insulation pads, and protective gloves, mitts, and apparel. Our Aluminum Foil (AF) and Aluminum Coated fabrics are economical alternatives used for industrial heat shields, fabricating expansion joints and insulation pads, or as lagging.

Description	Conductive Heat	Radiant Heat	Heat Reflection	Molten Splash	Moisture Resistance
Aluminized (Z-Flex MLA)	500°F (260°C)	3000°F (1649°C)	●	●	●
Aluminum Foil (Z-Flex AF)	300°F (149°C)	1000°F (538°C)	◐	○	●
Al Coating (Z-Shield Silver)	450°F (232°C)	N/A	○	○	○

Note: Conductive Heat rating limited by adhesive in laminates, not aluminium film or foil.

ZetexPlus® Vermiculite

Boost high temperature performance

Our proprietary ZetexPlus and HTV vermiculite coatings significantly enhance heat resistance, handleability, and abrasion resistance, and are 100% non-toxic and do not produce toxic gases when extreme temperatures are encountered. Vermiculite-coated ZetexPlus® is used for fabricating welding blankets, protective apparel, insulation pads, expansion joints, and lagging. Bronzing is a lighter coating used on high-silica fabrics such as Z-Sil™, providing increased wear resistance for stress relieving applications.

Description	Temperature Rating	Abrasion Resistance	Ease of Fabrication
ZetexPlus Formulation	2000°F (1093°C)	○	○
HTV Formulation	1500°F (816°C)	○	○
Bronze	N/A		○

Special Purpose

For specific application needs

Newtex continuously develops new coatings, treatments, and laminates to meet custom requirements. Fabrics coated with Rewettable Finish are used in lagging and encapsulation, while our HDA Coating (High Durability Acrylic) is used for insulation and fire-proofing on Naval ship hullboard or on lagging fabrics. Pressure-Sensitive Adhesive is used for temporary positioning of fabric during assembly.

Description	Temperature Rating	Features
Rewettable Finish	1000°F (538°C)	Water-activated adhesive for ease of application and hardened paintable surface
Hullboard Coating (HB)	N/A	Creates durable, paintable surface with low flame spread and smoke generation
Pressure-Sensitive Adhesive (PSA)	N/A	For temporary positioning of material during assembly

Feature Comparison Key

● = Excellent ◐ = Very Good ○ = Good



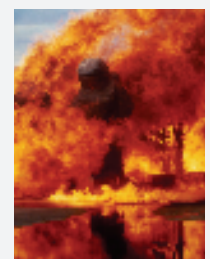
Headquarters
8050 Victor-Mendon Road
Victor, NY 14564
USA

Tel 800-836-1001
Fax 585-924-4645
E-mail sales@newtex.com
Web www.newtex.com

Asia/Pacific Office
No. 8 Commonwealth Lane
4th Floor
Singapore 149555

Tel 65 6748 1138
Fax 65 6748 0848
E-mail sales@newtex.com.sg
Web www.newtex.com.sg

As the most trusted name in the industry for over 30 years, Newtex is the pioneer and leading global producer of high temperature textiles for thermal management and fire protection. Our comprehensive product line includes Zetex®, ZetexPlus®, and Z-Flex® multilayer aluminized fabrics. We offer a full portfolio of heat, fire, and smoke resistant fabrics, insulation fabrics, tapes, ropes, tubings, and safety clothing. Our products support a broad range of applications that include fire safety, welding protection, insulation systems, expansion joints, and gasketing.



Newtex 2000 Series Fire Entry Suit