



Newtex offers over 20 standard coatings, treatments, and laminates that can be applied to most of our high temperature fabrics to meet the performance requirements of your application. Select from a variety of coatings and laminates to boost resistance to vapor, weathering, oil, water, chemicals, abrasion, flexural fatigue or UV radiation. Select from fabric treatments to improve handling, reduce airborne fibers, or simplify fabrication. We can also combine coatings or develop custom solutions for larger orders.

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

Z-Flex® Multilayer Aluminization

Protection from Extreme Radiant Heat up to 3000°F and Molten Metal Splash

Z-Flex® Multilayer Aluminization provides the highest achievable level of radiant reflectivity, chemical and moisture resistance, and thermal protection. The latest aerospace thin film deposition technology is used to apply fine, highly reflective aluminum particles to both sides of a high temperature polymer film barrier which is then chemically and mechanically bonded to a premium substrate fabric. Z-Flex reflects 95% of radiant heat and will not delaminate under even the most demanding flexing conditions.

Z-Flex® Aluminum Foil

Economical Radiant Heat Protection

Z-Flex® Aluminum Foil Lamination offers the same radiant heat protection as Z-Flex Multilayer Aluminization (MLA) at a lower cost. Z-Flex MLA offers superior durability and flex-bond, but Z-Flex AF is typically suitable for static applications where the fabric will not be subject to repetitive stretching, twisting, or vibration.

ZetexPlus® Vermiculite

High Temperature Performance

ZetexPlus® is a proprietary vermiculite coating that allows heat to dissipate evenly across the surface of a fabric, significantly boosting its temperature resistance. Our ZetexPlus formulation features larger platelets and more coverage than competitive vermiculite coatings, allowing for better dissipation of heat. The formula's organic adhesion promoter ensures a strong bond between the fabric and coating so that the coating provides more protection over a longer product life.

Z-Block™ Fire & Smoke

Superior Resistance to Fire, Smoke, & Weather

Z-Block™ is exceptionally resistant to fire, smoke, and external weather conditions. Z-Block withstands temperatures up to 1800°F (980°C) and is commonly used for fire and smoke curtains, fire containment covers, and other custom heat shields, blankets, and pads.

Z-Shield™ Acrylics

Protection from Sparks and Slag

Z-Shield™ acrylic coatings are ideal for fabrics used in welding and hot works applications. Z-Shield coatings are available in a variety of colors including Z-Shield Silver for radiant heat reflectivity, Z-Shield Black and Z-Shield Gold for a heavier and sturdier texture, Z-Shield Salmon for a more flexible drape, or the Z-Shield HB Hullboard Facing formulation for thermal insulation and fireproofing applications aboard ships. Z-Shield is water-based and will not produce hazardous outgassing.

Z-Tuff™ Silicone & PTFE

Increased Resistance to Weather, Chemicals, and Oil

Z-Tuff™ Silicone and Z-Tuff PTFE are non-stick coatings used for improved resistance to abrasion, weather, water, oil, chemicals, and UV rays. Silicone is superior for applications that require water resistance while PTFE is the better choice when UV resistance is important. Silicone withstands temperatures up to 500°F (260°C), and PTFE withstands temperatures up to 600°F (315°C). At these temperatures the coating will begin to degrade.

Color Dyes

For Aesthetic or Identification Purposes

Color-treated fabrics are used in a variety of industries for aesthetic or identification purposes. Color treatment does not significantly change the heat rating or physical properties of a fabric. Black, yellow, red, blue, green, and orange color treatments are available.

Rewettable

For Barriers and Encapsulation

The rewettable coating is an inorganic clay-based coating that can be wetted at the application site and then dries hard to form a barrier. The coating can withstand temperatures up to 1000°F (540°C). It is commonly used in encapsulation, barriers, and asbestos abatement applications.

Fabric Treatments

- **Heat Cleaned (HC)** fabrics are treated at high temperatures to remove binders, lubricants, and broken filaments from the fabric to reduce smoke generation, airborne fibers, and unraveling.
- **Fabrication Treatment (FAB)** is an acrylic coating applied to one side of the fabric. It improves weave stability and abrasion resistance and helps prevent fraying. FAB treatment is ideal for fabrics that will be die cut.
- **Regular Treatment (RT)** is a light acrylic coating applied to both sides of the fabric. It improves weave set and reduces the skin irritation sometimes associated with fiberglass fabrics.
- **Oil & Water Repellent (OWR)** is a lightweight protective coating used to prevent wicking and improve resistance to oil, water, and abrasion.



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For nearly 40 years, Newtex has been a pioneer and leading global producer of high temperature materials and engineered solutions for thermal management and fire protection. Headquartered in Rochester, New York, Newtex is an ISO 9001:2015 certified, vertically integrated manufacturer of an impressive portfolio of textiles and fabricated systems for insulation and fire containment. Globally recognized textile brands include ZetexPlus®, Z-Flex®, and Z-Block™. Newtex is a minority owned, veteran-managed business that has served the US Military and leading global industries since 1978. Newtex products are proudly made in the USA.

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