

Newtex High Temperature Fabrics

PERFORMANCE MATERIALS FOR INDUSTRIAL APPLICATIONS



Newtex provides a comprehensive line of innovative high temperature products that are used across industries for managing heat and protecting workers and facilities. Our fabrics, which include the original Zetex® and ZetexPlus®, have excellent fabrication and handling properties, support temperatures to 2000°F, and minimize heat transfer while resisting moisture, chemicals, stress, and abrasion. We control the entire process – from yarn production and weaving to coating and inspection – to ensure quality and keep costs low. With a range of fabric weights, constructions, and coatings to choose from, we can help you to find exactly the right product for your specific application.

Applications: Removable Insulation, Lagging, Fabric Expansion Joints, Gasketing and Sealing, Welding and Equipment Protection, Stress Relieving, Fire and Heat Barriers, Safety Apparel, Gloves and Mitts

Zetex® 1000°F

The industry standard in high temperature protection

Woven from highly texturized continuous filament yarn, Zetex provides superior thermal and acoustic insulation. A unique overspray process preserves texturization in fabrication and use. And since the fabric is made from inorganic materials, it won't smolder or produce hazardous outgassing.

Z-Fil™ 1000°F

Strong, lightweight facing and coating fabric

Made from continuous filament yarn, Z-Fil is strong, thin, and lightweight. It is ideal for coating with Silicone, Teflon (PTFE), or other elastomers to enhance the base fabric performance and can also be used as an economical facing or stress relieving material. Available in plain, twill, or satin construction. Woven with single yarns, or with plied yarns for added strength and thickness.

ZetexPlus® 2000°F

The same essential protection with twice the heat resistance

Treated with a specialty proprietary high temperature coating to dissipate heat across the surface of the fabric, ZetexPlus provides all the benefits of Zetex while supporting temperatures as high as 2000°F.

Z-Sil™ 3000°F

Flexible high-silica for the most extreme temperatures

Supporting continuous operating temperatures of 1800°F with peak temperatures to 3000°F, Z-Sil provides strong protection from sparks and slag and is ideal for stress relieving, stainless steel welding, and equipment protection. The fabric is treated with a proprietary inorganic coating that improves abrasion resistance and remains with the fabric even at high temperatures.

Note: Unless otherwise noted, all temperatures shown represent expected peak temperatures.

ZETEX AND ZETEX PLUS GRADES

Commercial Grade

Made with 9 micron yarn to provide economic yet highly effective thermal and acoustic insulation. Use in lagging, stress relief, and removable insulation.

Premium Grade

Made with 6 micron yarn to enhance handleability, ease of fabrication, and resistance to abrasion and flexural fatigue. Use in lagging, fabric expansion joints, removable insulation, and safety apparel.

Special Features Available

- Wire Reinforced: Adds wear resistance, additional strength and integrity, and conducts heat away from the insulated surface.
- Balanced Weave: Balances warp and weft picks and ends for equal strength in both dimensions.
- Special Weave: Satin and twill weaves enhances conformability, drape, and flexibility.
- Custom OEM Designs: Increased flexibility, strength, puncture resistance, and other features can be created for your unique application needs.

FABRIC WEIGHTS

Fabric weights range from 6 -110 ounces per square yard. Lighter weight fabrics (below 30 ounces/800 grams) are thinner and more conformable, providing a sensible choice for basic insulation needs, lagging, removable insulation systems, and stress relieving. Heavier weight (30 ounces/1000 grams or above) provide superior insulation and durability, making them well suited heavy insulation systems, fire curtains and heat shields, welding products, and fabric expansion joints.

FABRIC SELECTION

Premium grade is most commonly selected for fabricated items. Fabrics are available in a variety of widths. 40" and 60" are most common. Contact Newtex for detailed specifications.

Zetex® and ZetexPlus® Premium (A) and Commercial (C) Grade

Style	Weight Oz/Sq Yd	Thickness Inches
300	8.5	0.020
400	12	0.030
600	18	0.035
800	24	0.060
1000	30	0.065
1200	35	0.080
1350	40	0.085
2200	64	0.125
3400	100	0.250

Z-Sil™

605-AR	18	0.035
805-AR*	24	0.060
1100-AR	36	0.065

Z-Fil™

F-628 (7628)	6	0.007
F-781 (7781) 8HS	9	0.008
F-407 (3732) 4HS	12	0.017
F-824 (3784) 8HS	26	0.027

TREATMENTS AND COATINGS

Newtex offers a range of finishes, treatments, coatings, and laminates that can be applied to most base fabrics to enhance performance.

Our capabilities include:

- **Finishes and Treatments:** Heat Cleaned (HC), Regular Treatment (RT), Color Dyed, Oil and Water Resistant (OWR), ZetexPlus (Vermiculite), and HTV (Light Vermiculite).
- **Coatings:** Teflon (PTFE), Neoprene, Silicone, Aluminum, Rewettable, and Acrylics.
- **Laminates:** Z-Flex Multilayer Aluminum, Aluminum Foil, Stainless Steel Foil, and Pressure-Sensitive Adhesives.

Zetex® and ZetexPlus® Special Grade

Style*	Weight Oz/Sq Yd	Thickness Inches
A-301	8.5	0.025
A-601	19	0.040
A-801	24	0.060
A-1101	32	0.065
A-1201	35	0.080
A-1210	40	0.080
A-900 (Twill)	25	0.055
A-950 (Twill)	26	0.055
A-1325 (Twill)	39	0.085
A-820 (Wire)	24	0.045
A-1220 (Wire)	35	0.080
A-1230 (Wire)	38	0.070
A-1420 (Wire)	44	0.090

NEWTEX

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For over 30 years, Newtex Industries has been a trusted leader in high temperature protective clothing and equipment. Our protective apparel, gloves, mitts, and fire curtains are made from performance Zetex®, ZetexPlus®, Z-Flex®, and Aramid fabrics to resist temperatures up to 2000°F while providing outstanding protection from heat, fire, sparks, and molten splash.



Newtex 2000 Series
Fire Entry Suit