

High Temperature Fabrics



PERFORMANCE MATERIALS FOR INDUSTRIAL APPLICATIONS



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.

Note: Unless otherwise noted, all temperatures shown are peak temperatures.

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.

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. **Meets MIL-C-20079.**

Special Grade

- Special Construction (SC): Balances warp and weft for equal strength in both dimensions.
- Special Weave: Satin Weave (SW) or heavier-weight Twill Weave (TW) enhances conformability and flexibility.
- Wire Reinforced (WR): Adds wear resistance and conducts heat away from the insulated surface.
- Custom Engineered: Adds flexibility, strength, puncture resistance, and other features based on application needs.

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FABRIC WEIGHTS

Fabric weights range from 6 ounces per yard to 110 ounces per yard. Lighter weight fabrics such as Zetex and ZetexPlus 300 through 700 are thinner, providing economical basic insulation, such as for lagging, removable insulation systems, and stress relieving. Heavier weight Zetex and ZetexPlus 1000 and above provide superior insulation and durability, making them well suited for fabricating safety apparel, fire blankets and curtains, welding products, and fabric expansion joints.

FABRIC SPECIFICATIONS

Fabrics are available in select widths ranging from 40" to 72". Contact Newtex for detailed specifications.

Zetex® and ZetexPlus® Premium and Commercial 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™

600-AR	18	0.035
800-AR	24	0.060
1100-AR	36	0.065

Z-Fil™

200-PW (7628)	6	0.007
407-4HS (332)	12	0.017
475-PW (2523)	13	0.017
824-8HS (3784)	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 further enhance performance. Our capabilities include:

- Finishes and Treatments: Heat Cleaned (HC), Regular Treatment (RT), Color Dyed, Oil and Water Resistant (OW), Vermiculite, and Bronze
- Coatings: Teflon (PTFE), Neoprene, Silicone, Aluminum, Rewettable, and Acrylics
- Laminates: Aluminum, Aluminum Foil, Stainless Steel Foil, and Pressure-Sensitive Adhesive

Zetex® and ZetexPlus® Special Grade

Style*	Weight Oz/Sq Yd	Thickness Inches
300 - SC	8.5	0.025
600 - SC	19	0.040
800 - SC	24	0.060
1100 - SC	30	0.065
1200 - SC	35	0.080
1210 - SC	40	0.080
900 - TW	25	0.055
950 - TW	26	0.055
1325 - TW	39	0.085
800 - WR	24	0.045
1200 - WR	35	0.080
1210 - WR	38	0.070
1400 - WR	44	0.090

*Styles include: SC – Special Construction
TW – Twill Weave
WR – Wire Reinforced

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As the most trusted name in the industry for over 25 years, Newtex is the pioneer and leading global producer of high temperature textiles for thermal management and fire protection. Our comprehensive product line includes the original Zetex® and ZetexPlus® brand names as well as heat and fire resistant fabrics, insulation fabrics, tapes, ropes, tubings, and safety clothing, which support a broad range of applications that include fire safety, welding protection, insulation systems, expansion joints, and gasketing.