

## HIGH TEMPERATURE GLASS FABRICS



Newtex manufactures a comprehensive line of innovative high temperature products that are used across industries for managing heat and protecting workers and facilities. Our performance materials have excellent fabrication and handling properties, support temperatures up to 2300°F (1260°C), 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 to keep prices low.

**Common 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® Highly Texturized Fiberglass Fabric

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. The fabric is made from inorganic materials and will not produce hazardous outgassing. Zetex can withstand continuous operating temperatures up to 1000°F (540°C) and intermittent temperatures up to 1300°F (700°C).

### ZetexPlus® Vermiculite Treated Fabric

Additional heat and abrasion resistance

Treated with a proprietary high temperature coating to dissipate heat across the surface of the fabric, ZetexPlus provides all the benefits of Zetex while supporting continuous operating temperatures up to 1500°F (815°C) and intermittent temperatures up to 2000°F (1095°C). The ZetexPlus coating also improves abrasion resistance.

### Z-Fil™ Filament Fabric

Strong, lightweight facing and coating fabric

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

### Z-Sil™ Silica Fabric

Flexible high-silica fabric for the most extreme temperatures

Supporting continuous operating temperatures of 1800°F (980°C) and peak temperatures to 2300°F (1260°C), Z-Sil provides superior 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.

### Fabric Options

Premium Grade	Made with 6 micron yarn to enhance strength, ease of fabrication, abrasion resistance, and flexural fatigue. Premium grade fabrics also cause less irritation than commercial grade fiberglass fabrics.
Commercial Grade	Made with 9 micron yarn to provide economical yet highly effective thermal and acoustic insulation. Commonly used in lagging, stress relief, and removable insulation.
Special Features Available	<ul style="list-style-type: none"> <li>• <b>Wire Reinforced:</b> Wire adds wear resistance, additional strength and integrity, and conducts heat away from the insulated surface.</li> <li>• <b>Balanced Weaves:</b> Balanced warp and weft picks and ends for equal strength in both directions.</li> <li>• <b>Special Weaves:</b> Satin Weave and Twill Weave enhance conformability, drape, and flexibility.</li> <li>• <b>Custom OEM Designs:</b> Increased flexibility, strength, puncture resistance, and other features can be created for your unique application needs.</li> </ul>

## Fabric Weights

Fabric weights range from 6 to 110 ounces per square yard (osy). Lighter weight fabrics (below 30 osy/1,000 gsm) are thinner and more conformable, providing a sensible choice for basic insulation needs, lagging, removable insulation systems, and stress relieving. Heavier weight (greater than 30 osy/1,000 gsm) provide superior insulation and durability, making them well suited for heavy insulation systems, fire curtains, heat shields, welding products, and fabric expansion joints.

## Roll Specifications

Newtex Performance Materials are sold in full rolls only. A standard roll is 50 yards (45.72 m) in length and 40" or 60" wide (102 or 152 cm).

Style	Weight		Thickness	
	oz/yd <sup>2</sup>	g/m <sup>2</sup>	mils	mm

### Zetex® & ZetexPlus® Premium Grade Fabrics\*

A-300	8.5	288	20	0.51
A-400	12.8	434	32	0.81
A-600	17.7	600	33	0.84
A-800	24.0	814	55	1.40
A-1000	28.0	949	65	1.65
A-1101	32.0	1085	65	1.65
A-1200	35.0	1187	80	2.03
A-1201	35.0	1187	80	2.03
A-2200	57.0	1933	123	3.12
A-3400	100.0	3391	250	6.35

### Zetex® and ZetexPlus® Fabrics with Wire\*

A-820 **	24.0	814	45	1.14
A-920	26.0	882	45	1.14
A-1220	35.0	1187	75	1.90
A-1230 ***	40.0	1356	73	1.85

\* The weights and thicknesses listed in the tables above are for Zetex. When treated with the ZetexPlus coating, fabrics will be slightly heavier and not quite as thick.

\*\* Zetex A-820 with wire meets the requirements of Military Specification HH-P-31F.

\*\*\* ZetexPlus A-1230 with wire is also available in black.

## 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), Fabrication Treatment (FAB), Regular Treatment (RT), and Oil and Water Resistance (OWR)
- **Coatings:** ZetexPlus® Vermiculite, Z-Block™ Fire & Smoke, Z-Tuff PTFE, Z-Tuff™ Silicone, Z-Shield™ Acrylic, Color Dyes, and Rewettable (REW)
- **Laminates:** Z-Flex® Multilayer Aluminization (MLA), Z-Flex® Aluminum Foil (AF), and Pressure Sensitive Adhesive (PSA)

Style	Weight		Thickness	
	oz/yd <sup>2</sup>	g/m <sup>2</sup>	mils	mm

### Zetex® Commercial (C) Grade Fabrics\*

C-600	17.7	600	35	0.89
C-800	24.0	814	50	1.27
C-1000	30.0	1017	65	1.65
C-1200	35.0	1187	75	1.90
C-1350	40.0	1356	80	2.03

### Z-Fil™ Filament Fabrics

F-401 **	2.8	94	4	0.10
F-407	12.7	431	17	0.43
F-610 **	2.4	81	4	0.10
F-628	6.0	203	7	0.18
F-781	8.7	305	12	0.30
F-824	25.0	848	26	0.66

### Z-Sil™ Silica Fabrics

F-605	18	610	28	0.71
F-1105	36	1221	65	1.65

\* Commercial grade fabrics are not available with the ZetexPlus Vermiculite coating.

\*\* Z-Fil F-401 and Z-Fil F-610 are sold in 200 yard rolls. All other Newtex materials are sold in 50 yard rolls.



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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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