

Z-BLOCK™ FIRE & SMOKE



Z-Block™ flame retardant fabrics are high temperature polymer coated fiberglass fabrics treated with a proprietary formulation of fire retardants. Z-Block™ offers exceptional resistance to fire, smoke, and adverse weather.

Z-Block™ fabrics are designed for use in fire curtains, fire containment covers, and custom smoke and fire protection systems. When exposed to flame in these applications, the coating develops a protective high temperature silica layer allowing it to effectively prevent flame penetration at temperatures up to 1800°F / 980°C. Z-Block™ is also an excellent insulation jacketing material for multi-layer insulation blankets, but it is not intended for hot-side applications where contact temperatures exceed 350°F / 175°C. Z-Block™ is formulated with inorganic materials and will not produce hazardous outgassing.

Common Applications: Static and automatic fire and smoke curtains, fire containment covers, fire containment bags for personal electronic devices (PED's), fire shields for roofs and buildings, fire shields for heavy equipment, cold side jacketing for vessels and tanks, custom multilayer pads, covers, and blankets.

Testing & Certifications

ASTM D6413	Vertical Flame Resistance
ASTM E-84	Surface Flame Spread & Smoke Density
ASTM F955	Molten Metal Splash
FAR 25, Appendix F, Part III & IV	Flame Penetration Resistance & Smoke Density
BSS 7239	Toxicity of Products Combustion



Optional Features

- **Silicone Overcoat (SOC):** Z-Block™ fabrics are available with a Silicone Overcoat. The coating creates a smoother finish that protects the fabric from abrasion, improves water tightness, and increases weather and UV resistance.
- **Wire Reinforced:** Newtex manufactures a small selection of wire reinforced Z-Block™ fabrics. Each yarn used to weave the base fabric is reinforced with two stainless steel wires to create a stronger fabric with superior abrasion and puncture resistance. Wire inserted Z-Block™ is ideal for fabricating turbine blankets and other jacketing that will be subject to vibration, abrasion, or repetitive movement.

Alternative Coatings

Newtex also offers Z-Tuff™ Silicone and PTFE fabrics which are suitable alternatives to Z-Block™ for some applications, like fabricating heavy-duty weather resistant enclosures. Silicone and PTFE, however, are not suitable for fire containment applications.

Fabric Weights

Z-Block™ fabrics range in weight from 15 to 105 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 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

Z-Block™ is sold in full rolls only. A standard roll is 50 linear yards in length (45.72 m) and 52" or 60" wide (132 or 152 cm).

Style	Base Fabric	Weave Structure	Available Widths		Weight		Thickness	
			inches	cm	oz/yd ²	g/m ²	mils	mm
Z-Block F-407	Filament Glass	4H Satin	60	152	15	509	17	0.43
Z-Block F-407 SOC	Filament Glass	4H Satin	60	152	15	509	17	0.43
Z-Block A-820	Texturized Glass with Wire	1 x 1 Plain	60	152	36.5	1238	65	1.65
Z-Block F-824	Filament Glass	8H Satin	52	132	29	983	38	0.97
Z-Block A-2200, 1S*	Texturized Glass	1 x 1 Plain	60	152	62	2102	125	3.17

*Z-Block A-2200 is only coated on one side.



Headquarters

8050 Victor Mendon Road
Victor, NY 14564 USA

Tel: 800-836-1001
Fax: 585-924-4645

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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