

Z-BLOCK™ FIRE & SMOKE

Z-Block™ flame retardant fabrics are high temperature polymer-coated fiberglass fabrics treated with a proprietary formulation of fire retardants and finished with a high temperature silicone overcoat (SOC). Z-Block™ offers exceptional resistance to fire, smoke, abrasion, UV, and adverse weather. The Z-Block™ coating is formulated with inorganic materials and will not produce hazardous outgassing.

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 that prevents 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.

Common Applications

- Static and automatic fire and smoke curtains
- Fire containment covers for palletized cargo
- Fire containment bags for electronic devices
- Custom fire protection for hazardous goods
- Fire resistant covers for roofs and buildings
- Custom fire protection for heavy equipment
- Cold side jacketing for vessels, pipes, and tanks
- Removable insulation pads 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 & Heat Release Rate
BSS 7239	Toxicity of Products Combustion



Pictured Above: Z-Block F-407 SOC Fabric

Additional Options

- **Wire Reinforced:** The Z-Block™ coating can also be applied to some of Newtex’s Zetex® Steel™ Wire Reinforced Fabrics. These fabrics are woven with stainless steel wire to create a stronger flame retardant fabric with superior abrasion and puncture resistance. Wire reinforced Z-Block™ is ideal for fabricating insulation blankets and other jacketing that will be subject to vibration, abrasion, or repetitive movement.
- **Heavier Fabrics:** Though Z-Block™ is most commonly sold as Z-Block F-407 SOC (a 15 oz fabric) the Z-Block™ coating can also be applied to heavier fiberglass fabrics for applications where a thicker, more insulative fabric is required. Minimum order requirements apply.



Pictured Above: A flight attendant uses a Z-Block™ Fire Containment Bag to safely isolate a smoldering electronic device.

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.

- **Z-Tuff™ Silicone** is a rubbery, abrasion resistant coating available in gray or red. Z-Tuff™ Silicone is resistant to UV and water and protects from temperatures up to 500°F / 260°C.
- **Z-Tuff™ PTFE** is a smooth, non-reactive coating commonly known by the brand name “Teflon®.” Z-Tuff™ PTFE provides excellent chemical resistance and protects from temperatures up to 600°F / 315°C.



Pictured Above: A pallet covered by a Z-Block™ Fire Containment Cover is loaded onto a cargo aircraft. The cover will prevent flames from spreading if a fire starts on the pallet.

Roll Specifications

Z-Block™ is sold in full rolls only. A standard roll is 50 linear yards in length (45.72 m) and 60” in width (152 cm).

Style	Base Fabric	Weave Structure	Available Widths		Weight		Thickness	
			inches	cm	oz/yd²	g/m²	mils	mm
Z-Block F-407 SOC	Filament Glass	4H Satin	60”	152	15	509	17	0.43



Headquarters

8050 Victor Mendon Road
Victor, NY 14564 USA
Tel: 800-836-1001
Fax: 585-924-4645

For more than 40 years, Newtex has been a pioneer and leading producer of high temperature materials and engineered solutions for thermal management, heat shielding, 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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