

## Z-BLOCK FIRE & SMOKE

Z-Block fabrics are high temperature polymer coated materials treated with a proprietary formulation of fire retardants. Z-Block offers exceptional resistance to fire, smoke, and weather conditions and can withstand temperatures up to 1800°F (980°C). The Z-Block coating is available on a range of base fabrics, including texturized fiberglass, filament fiberglass, and wire reinforced fiberglass. Both the coating and base fabrics are 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 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 <sup>2</sup>	g/m <sup>2</sup>	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 F-590	Filament Glass	1 x 1 Plain	60	152	23	780	26	0.66
Z-Block F-620	Filament Glass with Wire	1 x 1 Plain	60	152	24	814	34	0.86
Z-Block F-824	Filament Glass	8H Satin	52	132	29	983	38	0.97
Z-Block A-920	Texturized Glass with Wire	1 x 1 Plain	60	152	38	1288	52	1.32
Z-Block A-2200, 1S*	Texturized Glass	1 x 1 Plain	60	152	62	2102	125	3.17
Z-Block A-3400, 1S*	Texturized Glass	4H Satin	60	152	105	3560	250	6.35

\*Z-Block A-2200 and Z-Block A-3400 are only coated on one side.



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For nearly 40 years, Newtex has been a pioneer and leading global producer of high performance materials and engineered solutions for thermal management and fire protection. Headquartered outside of Rochester, New York, Newtex is an ISO 9001:2008 certified, vertically integrated manufacturer of an impressive portfolio of heat and fire resistant fabrics, tapes, personal protective apparel, and custom high temperature solutions. We are a minority owned, veteran-managed business that has proudly served the US Armed Forces and leading global industries since 1978. Newtex products are proudly made in the USA.



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