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**

<table>
<thead>
<tr>
<th>Standard</th>
<th>Test Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM D6413</td>
<td>Vertical Flame Resistance</td>
</tr>
<tr>
<td>ASTM E-84</td>
<td>Surface Flame Spread &amp; Smoke Density</td>
</tr>
<tr>
<td>ASTM F955</td>
<td>Molten Metal Splash</td>
</tr>
<tr>
<td>FAR 25, Appendix F, Part III &amp; IV</td>
<td>Flame Penetration Resistance &amp; Heat Release Rate</td>
</tr>
<tr>
<td>BSS 7239</td>
<td>Toxicity of Products Combustion</td>
</tr>
</tbody>
</table>

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.

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.

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).

<table>
<thead>
<tr>
<th>Style</th>
<th>Base Fabric</th>
<th>Weave Structure</th>
<th>Available Widths</th>
<th>Weight</th>
<th>Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z-Block F-407 SOC</td>
<td>Filament Glass</td>
<td>4H Satin</td>
<td>60”</td>
<td>152 oz/yd²</td>
<td>17 mils</td>
</tr>
</tbody>
</table>

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

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.