

Welding and Fire Blankets

HIGH TEMPERATURE PROTECTION FROM FIRE, SPARKS, AND SLAG



For over 25 years, Newtex fabrics have been trusted in the most demanding environments, including shipbuilding, power generation, chemical processing, oil and gas, and other industries where sparks, molten metal splatter, and hot works operations pose serious fire hazards. Our advanced fabrics and proprietary coatings have been time-tested to provide superior resistance to high temperatures, abrasion, slag, and burn-through without the risk of toxic smoke outgassing. We offer a broad selection of welding blankets and curtains to meet your specific needs—from light welding and grinding to heavy welding, metal cutting, and stress relieving.

Industries: Power Generation, Iron and Steel, Petrochemical and Refinery, Automotive, Marine, and other Welding and Hot Works Operations

Z-Shield™ Salmon

Flexible protective fabric for draping over equipment and work area.

Available in Pink and Red, Z-Shield Salmon has superior conformability and can be easily draped over equipment or hung from a support to prevent sparks from starting fires within a 10 meter radius of the hot works operation. The coated fiberglass fabric is abrasion-resistant for high reusability, and is flexible enough to roll up, carry, and store.

Z-Shield™ & Z-Shield™ Plus

The industry standard in essential welding protection.

Woven from 100% high purity fiberglass, these fabrics won't burn, smolder, or produce hazardous outgassing. Z-Shield, available in White, Carmelized (Heat-cleaned 2025/9383), and Safety Orange, protects in light welding, grinding, and heavy metal cutting applications. Z-Shield Plus is treated with a vermiculite coating for added resistance to temperatures of 820°C to 1090°C.

Z-Shield™ Gold

Essential protection without the airborne fibers.

Z-Shield Gold delivers the same essential protection as Z-Shield, but is treated with an advanced acrylic coating that improves handleability and reduces airborne fibers. And unlike neoprene-coated golden glass, the acrylic coating enhances abrasion resistance and shelf life while eliminating the potential for toxic smoke outgassing.

Z-Shield™ Black

Complete protection for the toughest welding environments.

Z-Shield Black is a premium welding fabric that is treated with a high temperature vermiculite and over-coated with an oil and water-resistant acrylic to support temperatures of 820°C to 1090°C while providing exceptional resistance to abrasion, slag, and burn-through.

Z-Shield™ Tuff

Strong, waterproof, and weather-resistant.

Ideal for field construction or weather-exposed operations, Z-Shield Tuff filament fabric is coated with a high temperature silicone rubber, making it flexible and resistant to water and oil but without any toxic outgassing. In addition to the 540 gram Red fabric, Z-Shield Tuff is also available in Rust, a 1220 gram fabric that provides added durability and is ideal for plasma spray applications.

Z-Shield™ Silica

Supports extreme temperature applications.

Supporting continuous operating temperatures of 980°C to 1650°C, Z-Shield Silica is a highly flexible, high-silica fabric ideally suited 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.

Z-Shield™ Product Line Performance

Features	Z-Shield Salmon	Z-Shield	Z-Shield Plus	Z-Shield Gold	Z-Shield Black	Z-Shield Tuff	Z-Shield Silica
Peak Temperature	540°C	540°C	1090°C	540°C	1090°C	540°C	1650°C
Performance Enhancements	Flexibility			Abrasion Resistance, Less Irritation	Abrasion, Slag, & Torch-burn Resistance	Durability, Oil & Water Resistance	Flexibility

Primary Applications

Application	Z-Shield Salmon	Z-Shield	Z-Shield Plus	Z-Shield Gold	Z-Shield Black	Z-Shield Tuff	Z-Shield Silica
Grinding		■					
Drape	■	■				■	
Light Welding	■	■		■		■	
Medium Welding		■	■	■	■	■	
Heavy Welding			■	■	■	■	
Metal Cutting			■		■	■	■
Stainless Steel Welding							■
Stress Relieving							■

Z-Shield™ Product Availability¹

Grade	Weight Gr/Sq M	Width mm					
		910	970	1020	1220	1520	1830
Z-Shield Salmon	540		■			■	
Z-Shield	610, 810, 1080 ² , 1190, 1360			■	■	■	■
Z-Shield Plus	680, 950, 1290, 1490			■	■	■	■
Z-Shield Gold	810, 950, 1020			■		■	■
Z-Shield Black	850			■		■	
Z-Shield Tuff	540, 1220					■	
Z-Shield Silica	610, 1220	■					

¹ All products available as roll goods. Finished edges available on most fabrics and widths. Fabricated blankets available upon request.

² Only available in Safety Orange

Note: Temperatures are rounded to the nearest 10°C, weights to the nearest 10 grams/square meter, and widths to the nearest ten millimeters.



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As the most trusted name in the industry for over 25 years, Newtex is the pioneer and leading global producer of high temperature textiles for thermal management and fire protection. Our comprehensive product line includes the original Zetex® and ZetexPlus® brand names as well as heat and fire resistant fabrics, insulation fabrics, tapes, ropes, tubings, and safety clothing, which support a broad range of applications that include fire safety, welding protection, insulation systems, expansion joints, and gasketing.