

WELDING FABRICS



Since 1978, 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 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 fabrics used to fabricate welding blankets, curtains, and pads to meet your specific needs—from light welding and grinding to heavy welding, metal cutting, and stress relieving.

Industries: Power Generation, Iron & Steel, Petrochemical and Refinery, Shipbuilding, Chemical Processing, Oil & Gas, Automotive, Marine, and Other Welding and Hot Works Operations

Zetex® & ZetexPlus®

The industry standard in high heat protection

Woven from highly texturized continuous filament yarn, Zetex and ZetexPlus are widely used in applications requiring thermal insulation and fire protection. Zetex withstands operating temperatures up to 1000°F (540°C) and intermittent temperatures up to 1300°F (700°C). ZetexPlus is treated with a proprietary vermiculite coating for abrasion resistance and resistance to operating temperatures up to 1500°F (815°C) and intermittent temperatures up to 2000°F (1095°C).

Z-Tuff™ Silicone & Z-Block™ FS

Strong, waterproof, and weather-resistant

Ideal for field construction or weather-exposed operations, Z-Tuff Silicone and Z-Block FS fabrics are flexible and highly resistant to water and oil. They handle direct flame and slag well and will not produce hazardous outgassing. These fabrics are good for removable insulation jackets for equipment exposed to water, oil or chemical spray. Z-Tuff Silicone is available in silver or red and withstands temperatures up to 500°F (260°C). Z-Block withstands temperatures up to 1800°F (980°C).

Z-Sil™ Silica

Supports extreme temperature applications

Z-Sil is a highly flexible fabric composed of more than 96% silica. It is 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-Sil withstands continuous operating temperatures up to 1800°F (980°C) and peak temperatures up to 2300°F (1260°C).

Z-Shield™ Salmon & Bull Dog Red

Flexible protective fabric, good for draping

Z-Shield Salmon and Bull Dog Red fabrics have superior flexibility and can be easily draped over equipment or hung from a support to prevent sparks from starting a fire near a hot works operation. They are also commonly used for light welding and grinding. The acrylic coating is abrasion resistant for good reusability, and the filament fiber base fabric is flexible enough to roll up, carry, and store. Z-Shield Salmon and Bull Dog Red withstand temperatures up to 1000°F (540°C).

Z-Shield™ Gold & Z-Shield™ Black

Essential protection without the airborne fibers

Z-Shield Gold and Z-Shield Black both feature a texturized fiberglass base and acrylic coating. These fabrics are heavier and sturdier than Z-Shield Salmon. The acrylic coating is abrasion resistant and helps reduce airborne fibers. Unlike neoprene-coated golden glass, our acrylic coatings enhance abrasion resistance and shelf life while eliminating the potential for toxic smoke outgassing. These fabrics withstand temperatures up to 1000°F (540°C).

Z-Shield™ Silver

Reflective pigment for radiant heat resistance

In addition to the abrasion and heat resistance that characterize the standard Z-Shield acrylic coating, Z-Shield Silver also features a silver pigment used to reflect radiant heat. The silver pigment coats only one side of the fabric, which should be positioned to face the heat source. Like all Newtex fabrics, Z-Shield Silver will not release toxic outgassing. Z-Shield Silver protects from temperatures up to 1000°F (540°C).

INNOVATION. PERFORMANCE. PROTECTION.

	Zetex	ZetexPlus	Z-Tuff Silicone & Z-Block FS	Z-Sil Silica	Z-Shield Salmon	Z-Shield Gold & Black	Z-Shield Silver
Grinding	2	3	2	3	1	1	2
Drape	1	3	2	3	1	2	3
Light Welding	1	2	2	3	2	1	2
Medium Welding	2	2	2	2	3	1	2
Heavy Welding	2	1	2	1	3	2	3
Metal Cutting	3	1	2	1	3	2	3
Stainless Steel Welding	2	2	3	1	3	3	3
Stress Relieving	3	3	3	1	3	3	3

1 Commonly used for the application 2 Sometimes used for the application 3 Suitable for the application but not generally recommended

Product Availability

All products are sold in 50 yard (45.72 m) rolls. Finished edges are available on most fabrics. Fabricated blankets are available upon request.

Product	Style	Weight		Available Widths	
		oz/yd ²	g/m ²	inches	cm
Zetex	A-600	17	600	40, 60	102, 152
	A-800 *	24	814	40, 60	102, 152
	A-1000 *	28	949	40, 60	102, 152
	A-1101	32	1085	60	152
	A-1200	35	1187	40, 60	102, 152
	A-1201	35	1187	60	152
	A-2200	57	1933	40, 60	102, 152
	A-3400	100	3391	60	152
ZetexPlus	A-600	18	610	40, 60	102, 152
	A-800 **	24	814	40, 60	102, 152
	A-802	25	848	60	152
	A-1000	30	1017	40	102
	A-1101	33	1119	60	152
	A-1200	33	1119	40, 60	102, 152
	A-1201	37	1255	60	152
	A-1350	43	1458	40	102
A-2200	60	2034	40, 60	102, 152	

Product	Style	Weight		Available Widths	
		oz/yd ²	g/m ²	inches	cm
Z-Tuff Silicone *	F-500	15	509	60	152
	F-575	17	576	60	152
	A-820 wire **	33	1119	60	152
	F-1085	29	983	60	152
Z-Block FS	F-407	15	509	60	152
	F-820 wire	36.5	1238	60	152
	F-824	29	983	52	132
	A-2200 **	62	2102	60	152
Z-Sil Silica	F-605	18	610	36	91
	F-1105	36	1221	36	91
Z-Shield F-407	F-407 Salmon	15	509	38, 60	97, 152
	F-407 Red	15	509	38, 60	97, 152
	F-475***	15	509	38	97
Z-Shield C-800	C-800 Gold	30	1017	40, 60	102, 152
	C-800 Black	30	1017	40, 60	102, 152
Z-Shield Silver	A-1101 **	32	1085	60	152
	A-1220 wire **	39	1322	60	152

* Zetex A-800 and Zetex A-1000 are also available in Safety Orange.

** ZetexPlus A-800 is also available in Black.

* Z-Tuff Silicone is available in Red or Silver.

** These fabrics are coated on 1 side only.

*** Z-Shield F-475 Salmon is Berry Amendment compliant.



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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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