



# ALPHA

## engineered composites

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### AlphaTex 4259-2-SS

#### DESCRIPTION

AlphaTex 4259-2-SS is a woven, alkali-free, aluminosilicate fiberglass impregnated with a specially formulated silicone elastomer at 25% by weight with great flame resistance, abrasion, flex, tear, and puncture toughness. AlphaTex 4259-2-SS is designed for higher mechanical strength at elevated temperatures via high silica, alumina, and calcium oxide content and superior protection against corrosion under insulation potential with lower leachable sodium ion contamination versus competitive products on the market today.

#### ADVANTAGES

Greater thermal stability, lower propensity to contribute to corrosion under insulation, weather resistance, fluid resistance, UV resistance, low flame-smoke-and-toxicity, easily sewn, and has a thin lightweight profile.

#### APPLICATIONS

This product is the next generation in high-temperature removable blankets, flange covers, and valve covers.

### PROPERTY DATA

#### AlphaTex 4259-2-SS

<u>CHARACTERISTIC</u>	<u>METHOD</u>	<u>TYPICAL VALUES</u>	
		<u>ENGLISH</u>	<u>METRIC</u>
WEIGHT	ASTM-D-3776	17.5 oz/sy +/- 10%	595 g/m <sup>2</sup>
THICKNESS	ASTM-D-1777	0.018" +/- 10%	0.457 mm
TENSILE STRENGTH	ASTM-D-5035	Warp- 325 lbs/inch Fill- 250 lbs/inch	58 kg/cm 44
kg/cm TEAR STRENGTH	ASTM-D-5587	Warp- 60 lbs Fill- 60 lbs	27 kg 27
kg BURST STRENGTH kg/cm <sup>2</sup>	ASTM-D-3786	600 psi min.	63
FLAME RESISTANCE	ASTM D-6413	Char Length 0.0625 inch Afterglow 1.0 second Flame Out 1.0 second	0.1588 cm 1.0 second 1.0 second
UV RESISTANCE	ASTM-G-154	No chalking, checking, blistering, cracking, flaking, or change in breaking strength after 1000 hours	
BASE FABRIC and WEAVE		High Temperature Fiberglass, 4-Harness Satin	
COLOR and COATING		Silver Silicone	
CONTINUOUS OPERATING TEMPERATURE INTERMITTENT EXPOSURE		-85°F to 500 °F +700 °F	-65°C to 260°C +371 °C

DATA SHEET: 15080 REV: C DATE: 3/11/25 All values are typical unless otherwise specified.

### Specializing in marine, aerospace, automotive and commercial fabrics for thermal and industrial applications

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