



## 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.

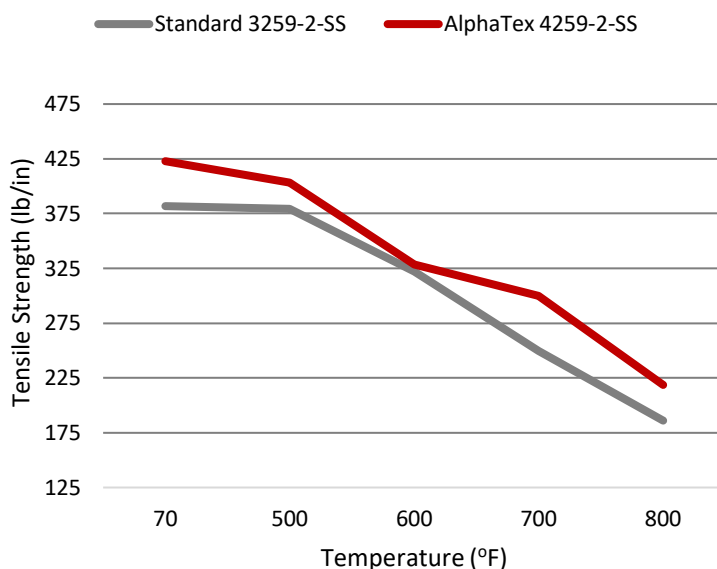
### APPLICATIONS:

- High Temperature Insulation for Power Generation, Industrial Automation
- Nuclear and Military Thermal Protection
- Petrochemical, Oil & Gas, Welding & Cutting
- Marine & Offshore Equipment Systems
- Semiconductor & High-Tech Precision Processing

### FEATURES AND ADVANTAGES:

- Greater thermal stability
- Minimizes risk of corrosion under insulation (CUI)
- UV and weather resistant
- Fluid resistant, abrasion resistant
- Easily sewn, highly flexible and conformable

### Mechanical Strength After Thermal Exposure



PROPERTY	METHOD	TYPICAL VALUES		
		ENGLISH		METRIC
WEIGHT	ASTM-D-3776	17.5 oz/sy +/- 10%		595g/m <sup>2</sup>
THICKNESS	ASTM-D-1777	0.018" +/- 10%		0.457 mm
TENSILE STRENGTH	ASTM-D-5034	Warp	325 lbs./inch	58 kg/cm
		Fill	250 lbs./inch	44 kg/cm
TEAR STRENGTH	ASTM-D-5587	Warp	60 lbs.	27 kg
		Fill	60 lbs.	27 kg
BURST STRENGTH	ASTM-D-3786	600 psi		42 kg/cm <sup>2</sup>
FLAME RESISTANCE	ASTM-D-6413	Char Length	0.06 inches	0.16 cm
		Afterglow	1 second	1 second
		Flame Out	1 second	1 second
UV RESISTANCE	ASTM-G-154	No chalking, checking, blistering, cracking, flaking, or change in breaking strength after 1000 hours		
OPERATING TEMPERATURE INTERMITTENT EXPOSURE		-85 °F to 500 °F		-65°C to 260°C
		+700°F		+371 °C
COLOR and COATING		Silver Silicone		

DATA SHEET: 15080

REV: C

DATE: 3/31/25

\*All values are nominal unless otherwise specified.

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

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