



# ALPHA

high performance fabrics & composites

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ALPHA - MARITEX  
STYLE 8459-2-SS

**DESCRIPTION**

Alpha Maritex Style 8459-2-SS is a fiberglass fabric impregnated with a specially formulated silicone rubber designed to meet the rigid requirements for use in nuclear reactors. This product is designed specifically for high temperature (500 ° F) removable pads, flange and valve covers. This product can be manufactured to meet the requirements of NRC 1.36 as well as MIL-I-24244. This (Heavy Duty) silicone impregnated fiberglass fabric is used where more wear resistance is needed.

**ADVANTAGES**

Aluminum color, Water and Oil resistant, Acid and Alkali resistant, Flame retardant, Low Smoke, Easily sewn, Adhesive bonded or sealed. The special high temperature, flame retardant silicone rubber provides greater life and improved resistance to abrasion, flexing, tear and puncture.

**APPLICATIONS**

Removable Insulation Pad Covering, Flange and Valve covers, Welding Curtains and Splash Shields, Safety Clothing, Equipment Covers, Flexible Connectors (Expansion Joints).

**PROPERTY DATA**  
STYLE 8459-2-SS

<b><u>CHARACTERISTIC</u></b>	<b><u>METHOD</u></b>	<b><u>VALUES*</u></b>	
		<b><u>ENGLISH</u></b>	<b><u>METRIC</u></b>
WEIGHT	ASTM-D-3776	34.0 oz/sy ± 10%	1156 g/m <sup>2</sup> ± 10%
THICKNESS	ASTM-D-1777	0.037" ± 10%	0.940 mm ± 10%
TENSILE STRENGTH	ASTM-D-5034	Warp- 400 lbs/inch min. Fill- 350 lbs/inch min.	71.44 kg/cm 62.51 kg/cm
TEAR STRENGTH	ASTM-D-5587	Warp- 65 lbs min. Fill- 55 lbs min.	29.48 kg 24.95 kg
BURST STRENGTH	ASTM-D-3786	750 psi min.	52.5 kg/cm <sup>2</sup>
FLAME RESISTANCE	ASTM D-6413	Char Length 1 inch max. Afterglow 1 second max. Flame Out 1 second max.	2.54 cm max. 1 second max. 1 second max.
TEMPERATURE RESISTANCE		-67 °F to +500 °F	-55 °C to 260 °C
BASE FABRIC and WEAVE		Fiberglass/Satin Weave	
COLOR and COATING		Silver Silicone	
E-GLASS BASE FABRIC		1,200 °F Melt Point	649 °C Melt Point

DATA SHEET: 13431 REV: H DATE: 08/03/12 \*All values are nominal unless otherwise

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

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