



# ALPHA

high performance fabrics & composites

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ALPHA - MARITEX  
STYLE 3101-2-SS

DESCRIPTION

Alpha Maritex Style 3101-2-SS is a fiberglass fabric impregnated with a specially formulated silicone rubber designed to meet the rigid requirements for use in nuclear reactors. This special high temperature, flame retardant silicone rubber provides greater life and improved resistance to abrasion, flexing, tearing, and puncture. Alpha Maritex Style 3101-2-SS was specifically designed as a low cost, light duty product for preparing high temperature (+500 °F) removable pads, flange and valve covers.

ADVANTAGES

Aluminum color, Water and Oil resistant, Flame retardant, Chemical resistant, Very Low Smoke, Easily sewn - drapeable, Lightweight, Easy to handle.

APPLICATIONS

Removable Insulation Pads, Flange Covers, Welding Curtains, Safety Clothing, Equipment Covers, Expansion Joints.

PROPERTY DATA  
STYLE 3101-2-SS

<u>CHARACTERISTIC</u>	<u>METHOD</u>	<u>VALUES*</u>	
		<u>ENGLISH</u>	<u>METRIC</u>
WEIGHT	ASTM-D-3776	15.0 oz/sy ± 10%	510 g/m <sup>2</sup> ± 10%
THICKNESS	ASTM-D-1777	0.014" ± 0.001"	0.356 mm ± .025 mm
TENSILE STRENGTH	ASTM-D-5035	Warp- 300 lbs./inch Fill- 225 lbs/inch	53.58 kg/cm 40.19 kg/cm
TEAR STRENGTH	ASTM-D-5587	Warp- 50 lbs. Fill- 50 lbs.	22.68 kg 22.68 kg
BURST STRENGTH	ASTM-D-3786	600 psi	42 kg/cm <sup>2</sup>
FLAME RESISTANCE	ASTM D-6413	Char Length 1/16 inch max. Afterglow 1 second max. Flame Out 1 second max.	0.159 cm max. 1 second max. 1 second max.
TEMPERATURE RESISTANCE		Cold (-67 °F) Continuous 1000 hrs @ +500 °F - No Change Intermittent 100 hrs @ +700 °F - Weight Loss = 10%, Strength Loss = 50%	-55 °C to 260 °C
BASE FABRIC and WEAVE		Fiberglass/Satin Weave	
COLOR and COATING		Silver Silicone Rubber	

DATA SHEET: 12978 REV: D DATE: 03/06/12 \*All values are nominal unless otherwise specified.

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

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