



# ALPHA

## engineered 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<br>Fill- 225 lbs/inch  | 53.58 kg/cm<br>40.19 kg/cm                      |
| TEAR STRENGTH          | ASTM-D-5587   | Warp- 50 lbs.<br>Fill- 50 lbs.   | 22.68 kg<br>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.<br>Afterglow 1 second max.<br>Flame Out 1 second max.   | 0.159 cm max.<br>1 second max.<br>1 second max. |
| TEMPERATURE RESISTANCE |               | Cold (-67 °F)<br>Continuous 1000 hrs @ +500 °F - No Change<br>Intermittent 100 hrs @ +700 °F - Weight<br>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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