



ALPHA

engineered composites

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ALPHA - SIL
 STYLE 1000

DESCRIPTION

Alpha-Sil Style 1000 is a heavy weight silica fabric, tan in color, with superior physical and thermal characteristics compared to traditional silica fabrics. This material can meet Mil C24576A Type 1. ANSI/FM 4950 approved for welding blankets.

APPLICATIONS

Alpha-Sil Style 1000 is intended for use in any application where high heat resistance and thermal protection is required, such as furnace curtains, stress relieving blankets, welding blankets and other heat shielding applications.

ADVANTAGES

The unique properties of Alpha-Sil Style 1000 make it an extremely cost-effective alternative to regular silica fabrics with superior physical properties, such as abrasion resistance and breaking strength, as a bonus. The vermiculite coating that is on Alpha-Sil performs a dual task. Initially it reduces the ability of the fabric to fray making it more workable through the cutting and sewing processes. The even greater duty of the vermiculite coating is to dissipate the heat across the fabric rather than allow heat from molten slag to fester in a single point allowing greater protection from molten slag going through the fabric. These factors along with the higher melting point of the amorphous silica allow Alpha-Sil to be the fabric of choice where high heat resistance is desired.

PROPERTY DATA

STYLE 1000

<u>CHARACTERISTIC</u>	<u>METHOD</u>	<u>VALUES*</u>	
		<u>ENGLISH</u>	<u>METRIC</u>
WEIGHT	ASTM-D-3776	34.0 oz/sy ± 10%	1156 g/m ² ± 10%
THICKNESS	ASTM-D-1777	0.050" ± 10%	1.270 mm ± 10%
TENSILE STRENGTH	ASTM-D-579	Warp- 200 lbs/in. Fill- 100 lbs/inch	35.72 kg/cm 17.86 kg/cm
TEMPERATURE RESISTANCE		Continuous: 1800 °F Melt Temperature: 3000 °F Linear shrinkage: 5% @1800 °F	Cont. 982 °C , Melt. 1649 °C
BASE FABRIC and WEAVE		Silica/8 Harness Satin	
SILICON DIOXIDE CONTENT		>96%	
ABRASION RESISTANCE	MIL-C-24576A	Cycles min. Warp 100 Fill 100	
COLOR & COATING		Light Tan / Vermiculite	
WIDTH - 35" (88.9 cm) LENGTH - 50 yds.(45.72 meters)			

DATA SHEET: 13094 FM REV: K DATE: 4/21/2017 *All values are nominal unless otherwise specified.

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

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