



# ALPHA

high performance fabrics & composites

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ALPHA – SIL  
STYLE 600

DESCRIPTION

Alpha-Sil Style 600 is a medium weight silica fabric, tan in color, with superior physical and thermal characteristics compared to traditional silica fabrics. ANSI/FM 4950 APPROVED. This material can meet MIL C24576A Type 1.

APPLICATIONS

Alpha-Sil Style 600 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 600 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 600

<u>CHARACTERISTIC</u>	<u>METHOD</u>	<u>VALUES*</u>		
		<u>ENGLISH</u>	<u>METRIC</u>	
WEIGHT	ASTM-D-3776	18.0 oz/sy ± 10%	612 g/m <sup>2</sup> ± 10%	
THICKNESS	ASTM-D-1777	.030" ± 10%	0.762 mm ± 10%	
BREAKING STRENGTH	ASTM-D-579	Warp-	250 lbs/in.	44.6 kg/cm
		Fill-	100 lbs/inch	17.9 kg/cm
TEMPERATURE RESISTANCE		Continuous Use: 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%		
COLOR		Light Tan/Vermiculite		
ABRASION RESISTANCE	MIL-C-24576A	20 Cycles min.		
WIDTH - 35" (88.9 cm)	LENGTH - 50 yds.(45.72 meters)			

DATA SHEET: 13093 FM REV: J DATE: 3/25/2015 \*All values are nominal unless otherwise specified.

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

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