



# ALPHA

## engineered composites

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### AlphaTex 4025 VCF

#### DESCRIPTION

AlphaTex 4025 VCF is a medium weight, plain weave, aluminosilicate fiberglass fabric coated with a vermiculite compound that imparts excellent thermal resistance. The AlphaTex 4025 VCF base woven fabric is specifically designed and manufactured for greater thermal stability through high silica, alumina, and calcium oxide content and superior protection against corrosion under insulation with lower leachable ion potential versus incumbent products on the market today. AlphaTex 4025 VCF incorporates a high-temperature, flame retardant, vermiculite coating which provides excellent resistance to abrasion, flexing, tear and puncture.

#### ADVANTAGES

Greater thermal stability, lower propensity to contribute to corrosion under insulation, low flame-smoke- and toxicity, easily sewn, and has a thin lightweight profile.

#### APPLICATIONS

This product is the next generation in high-temperature removable pads, flange covers, and valve covers. Can be used as a flame or heat barrier material on many applications such as the hot side of insulation blankets, radiant heat shields and any other application where a thermal barrier is required.

### PROPERTY DATA

#### AlphaTex 4025 VCF

<u>CHARACTERISTIC</u>	<u>METHOD</u>	<u>TYPICAL VALUES</u>		
		<u>ENGLISH</u>		<u>METRIC</u>
WEIGHT	ASTM-D-3776	17.5 oz/sy		595 g/m <sup>2</sup>
THICKNESS	ASTM-D-1777	0.030"		0.762 mm
TENSILE STRENGTH	ASTM-D-5035	Warp- Fill-	398 lbs./inch 200 lbs./inch	71 kg/cm 36 kg/cm
TEAR STRENGTH	ASTM-D-5587	Warp- Fill-	50 lbs. 25 lbs.	23 kg 11 kg
FLAME RESISTANCE	ASTM D-6413	Char Length Afterglow Flame Out	0.125 inch 1.0 seconds 0.0 seconds	0.318 cm 1.0 seconds 0.0 seconds
TEMPERATURE RESISTANCE			1400 °F	760 °C
INTERMITTENT EXPOSURE			1600 °F	871°C
BASE FABRIC AND WEAVE			High Temperature Fiberglass, Plain	
COLOR AND COATING			Golden Brown Vermiculite	

DATA SHEET: 15079 REV: C DATE: 3/11/2025

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

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