



ALPHA

engineered composites

145 Lehigh Avenue, Lakewood, NJ 08701
T: 732.634.5700 F: 732.634.1430 alphainc.com

AlphaTex Temp Mat H

DESCRIPTION

AlphaTex Temp Mat H is an incombustible, alkali-free, aluminosilicate mat composed of high temperature glass fibers which are manufactured in web form and mechanically needled together without chemical binders. AlphaTex Temp Mat H is designed for both greater high temperature stability via high silica, alumina, and calcium oxide content and superior protection against corrosion under insulation potential with lower leachable fluoride, sodium, and potassium ion contamination versus competitive products on the market today.

ADVANTAGES

Greater thermal stability, lower propensity to contribute to corrosion under insulation, incombustible, superior sound absorption properties.

APPLICATIONS:

AlphaTex Temp Mat H is an effective replacement for asbestos mats, millboard, ceramic or refractory fiber paper, mat, & sheets, and mineral fiber boards. It is used as a thermal insulation and gasket material in home and industrial furnaces, package boilers and for special piping applications where thermal resistance, flexibility and low special air, liquid chemical, and thermal resistance are mandatory.

PROPERTY DATA

AlphaTex Temp Mat H

CHARACTERISTIC

TYPICAL VALUES

	<u>ENGLISH</u>	<u>METRIC</u>
WEIGHT	13.5 oz/ft ²	4120 g/m ²
THICKNESS	1.0"	25 mm
DENSITY	10.1 lb/ft ³	161.8 Kg/m ³
THERMAL RESISTANCE	1400°F	760°C
TENSILE STRENGTH	Warp 43 lbs./2"	191 N/2"
	Fill 23 lbs./2"	102 N/2"

Thermal Properties using TPS	Temperature	(W/mK)	(m ² K/W)
	24°C	0.0444	0.5720
	177°C	0.0704	0.3607
	371°C	0.1224	0.2075
	760°C	0.3769	0.0624
	800°C	0.4233	0.0554
Flame Spread and Smoke Developed via ASTM E-84			0 and 0
Noise Reduction Coefficient (250, 500, 1000, 2000 Hz) via ASTM C423			0.80
Sound Absorption Average (200 to 2500 Hz) via ASTM C423			0.81

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

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