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ALPHA TEMP-MAT

DESCRIPTION

ALPHA TEMP-MAT is manufactured to conform with the requirements of Military Specification MIL-1-16411 Type II, ASTM-C-1086-96 and Coast Guard Specification for Incombustible Materials #164.009 and MIL-I-24244. TEMP-MAT is a fiberglass mat composed of 100% "E" type glass fibers 9-13 microns In diameter which are put into web form and mechanically needles together without chemical binders.

ADVANTAGES

1" (2.54 cm)

15 oz./ft²

4578 g/m²

ALPHA TEMP-MAT is an effective low cost replacement for asbestos mats, millboard, ceramic or refractory fiber paper, mat and sheets and mineral fiber boards. It is used as a thermal insulation and gasket material in home and industrial furnaces, package boiler and for special piping applications where heat resistance, flexibility and low special air and liquid chemical and thermal resistance are mandatory.

L	TEIVIP-IVIAT PROPERTIES													
I		<u>Weight</u>		<u>Density</u>										
l	<u>Thickness</u>	<u>English</u>	<u>Metric</u>	<u>English</u>	<u>Metric</u>	Service Temperature								
l	1/4" (0.635 cm)	3 oz./ft. ²	915.6 g/m^2	9 lbs./cu.ft.	144.2 kg/cu.m	Up to 1200°F (649°C)								
l	1/2" (1.27 cm)	6 oz./ft. ²	1831.2 g/m ²	9 lbs./cu.ft.	144.2 kg/cu.m	Up to 1200°F (649°C)								
l	3/4" (1.91 cm)	9 oz./ft. ²	2746.8 g/m^2	9 lbs./cu.ft.	144.2 kg/cu.m	Up to 1200°F (649°C)								

TEMP MAT DOODEDTIES

11 lbs./cu.ft.

176.2 kg/cu.m

Up to 1200°F (649°C)

THERMAL CONDUCTIVITY "K" Value for 1 Inch Thick "K" BTU-Inch/Hour-ft. ² -°F		TENSILE STRENGTH		ACOUSTICAL RATINGS			
		1" Machine 1" Cross-machine	125 lbs 90 lbs				
				Frequency	(Hz) 1/4"	1/2"	1" .
		½" Machine	80 lbs	250	.04+02	.07+02	.15+04
MEAN TEMPERATURES		½" Cross-machine	60 lbs	500	.12+01	.24+01	.80+03
75°F (24°C)	0.29			1000	.29+01	.55+01	1.02+02
300°F (149°C)	0.40			2000	.51+01	.79+02	1.08+02
500°F (260°C)	0.50			4000	.85+01	.91+02	.92+02
700°F (371°C)	0.65						
				Noise reduct	Noise reduction 0.25 Coefficient		0.70
			Coefficient				
•		Flame Spread 0					
		Smoke Devel	oped 0				

DATA SHEET: 13412 REV: L DATE: 11/7/2017 *All values are nominal unless otherwise specified.

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

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^{*}All four Temp-Mat styles have extremely good fire resistance and are incombustible, have negligible moisture absorption, but will experience up to 2% weight loss at continuous use a 1200°F (649°C).