



DESCRIPTION

ALPHA TEMP-MAT is manufactured to conform with the requirements of Military Specification MIL-I-16411 Type II 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 which are put into web form and mechanically needled together without chemical binders.

ADVANTAGES

ALPHA TEM-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 boilers and for special piping applications where heat resistance, flexibility and low special air and liquid chemical and thermal resistance are mandatory.

TEMP – MAT PROPERTIES

Thickness	Weight: English	Weight: Metric	Density: English	Density: Metric	Service Temperature
¼" (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)
½" (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)
1" (2.54 cm)	15 oz/ft ²	4578 g/m ²	11 lbs/cu.ft.	176.2 kg/cu.m	Up to 1200° F (649° C)

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

THERMAL CONDUCTIVITY

“K” Value at 9.1 lbs./cu.ft. (145.8 kg/cu.m)

<u>Mean Temperatures</u>	<u>“K” BTU/Inch/Hr./Ft²/°F</u>	<u>“K” watts per meter Kelvin (W/(m-K))</u>
300o F (149o C)	0.40	207.7
500o F (260o C)	0.50	259.6
700o F (371o C)	0.65	337.5