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TTT | TEMP-MAT

DESCRIPTION

TTT 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

TTT 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 tindustrial furnaces, package boiler and for special piping applications where heat resistance, flexibility and low special air and liquid chemical and thermal resistance are mandatory.

TEMP-MAT PROPERTIES

	Weight			Density			
Thickness	English		Metric	English		Metric	Service Temp.
1/4" (0.635 cm)	3	oz./sq.ft	915.6 g/sq.m	9	lbs./cu.ft	144.2 kg/cu.m	Up to 1200F (649 C)
1/2" (1.27 cm)	6	oz./sq.ft	1831.2 g/sq.m	9	lbs./cu.ft	144.2 kg/cu.m	Up to 1200F (649 C)
3/4" (1.91 cm)	9	oz./sq.ft	2746.8 g/sq.m	9	lbs./cu.ft	144.2 kg/cu.m	Up to 1200F (649 C)
1" (2.54 cm)	15	oz./sq.ft	4578 g/sq. m	11	lbs./cu.ft	176.2 kg/cu.m	Up to 1200F (649 C)

***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).**

THERMAL CONDUCITIVITY

"K" Value for 1 Inch Thick
"K" BTU-Inch/Hour-sq.ft-F

MEAN TEMPERATURES

75 F (24 C)	0.29
300 F (149 C)	0.40
500 F (260 C)	0.50
700 F (371 C)	0.65

TENSILE STRENGTH

1" Machine	125 lbs
1" Cross-machine	90 lbs
1/2" Machine	80 lbs
1/2" Cross Machine	60 lbs

ACOUSTICAL RATINGS

Frequency(HZ)	1/4"	1/2"	1"
250	.04+-.02	.07+-.02	.15+-.04
500	.12+-.01	.24+-0.1	.80+-.03
1000	.29+-.01	.55+-.01	1.02+-.02
2000	.51+-.01	.79+-.02	1.08+-0.2
4000	.85+-.01	.91+-.02	.92+-.02

Noise Redcution Coefficient	0.25	0.40	0.70

Flame Resistance	ASTM E-84	Flame Spread	0
		Smoke Developed	0

