

FUSED SILICA
HOT PRESS PLATENS
CASTABLE CERAMICS
FIRED SHAPES
AEROSPACE TOOLING

Foundry Service & Supplies, Inc.

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HI-TEMP INSULATIONS
CALCIUM SILICATE BOARDS
MILLBOARD AND BLANKET
PAPERS AND CEMENTS
CUTTING AND FABRICATING

TEMP-MAT - HIGH TEMPERATURE - FLEXIBLE INSULATION

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 100% fiber glass mat which is an effective low cost replacement for asbestos mats, millboard; ceramic or refractory fiber paper, mat and sheets; and mineral fiber boards. It is composed of 100% "E" type glass fibers which are put into web form and mechanically needled together without chemical binders.

TEMP-MAT 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.

PHYSICAL PROPERTIES

Service Temperature	Up to 1200°F
Fire Resistance	Incombustible
Weight (approximate) 1"	15 oz./sq.ft.
Weight (approximate) 1/2"	6 oz./sq.ft.
Weight (approximate) 1/4"	3 oz./sq.ft.
Loss in weight at 1200°F	Up to 2%
Moisture absorption	Negligible
Density (approximate) 1"	11 lbs./cu.ft.
Density (approximate) 1/2"	9 lbs./cu.ft.
Density (approximate) 1/4"	9 lbs./cu.ft.

THERMAL CONDUCTIVITY

"K" Value (at 9.1 lbs./cubic foot)

<u>Mean Temperatures</u>	<u>"K" BTU/Inch/Hr./Sq.Ft./°F</u>
300°F	0.40
500°F	0.50
700°F	0.65

Data Sheet #13412

Date: March 23, 1998