



**PASSIVE FIRE PROTECTION MATERIALS**

# NVT- THERMAT-1200

Needled E-Glass Mat is a mechanically bonded, high temperature fiberglass insulation blanket of uniform density. It is manufactured from long textile glass fibers with uniform mechanical bonding and no additional binders. The resulting product has excellent insulation efficiency for extended exposure at high temperatures up to 1200 degF. Excellent for sound insulation and thermal blanket wrap applications.



**SPECIFICATIONS**

**NOMINAL THICKNESSES**

BASE PRODUCT*	Fiberglass Mat	1/8" *	1/4" *	1/2" *	1" *
COLOR / APPEARANCE		White	White	White	White
AVAILABLE WIDTHS, standard		39 in	60 in	60 in	60 in
ROLL LENGTH, feet		150 ft	150 ft	75 ft	45 ft
CONSTRUCTION	Random Fiber Orientation	-----	-----	-----	-----
AREA, sqft/roll		487	750	375	225
DENSITY (WEIGHT), oz./sqft, average**		2 oz	4 oz	6 oz	15 oz
WEIGHT, lbs/roll		59	185	140	215
SOUND ABSORPTION, Sabins/sqft-Frequency (Hz) +/- .05 ave.					
250 Hz			0.04	0.70	0.29
500 Hz			0.17	0.30	0.86
1000 Hz			0.40	0.72	0.95
2000 Hz			0.68	0.94	0.92
4000 Hz			0.94	0.97	0.95

**THERMAL CONDUCTIVITY (Btu x in/hr/sqft x ft/deg.F)**

Examples:

@300 deg.F	0.400
@500 deg.F	0.500
@700 deg.F	0.650

**TEMPERATURE TOLERANCE**

Up to 1200 degrees Fahrenheit  
Higher for brief periods.

**BASE MAT CERTIFICATIONS**

MIL-I-16411F, USCG 163.009  
MIL-STD-45662A, NRC 1.36  
Can be tested & certified to MIL-I-24244C,  
UL Listed Ref.# R11184 (0 Flame Spread, 0 Smoke)

**CHEMICAL RESISTANCE**

Excellent except Hydrofluoric and hot  
Phosphoric acid and wet Hydrogen Chlorid

**SOLVENT RESISTANCE**

Excellent

**SUNLIGHT & AGE RESISTANCE**

Excellent

**ELECTRICAL PROPERTIES**

High dielectric strength, low constants

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