



## HIGH TEMPERATURE MAT

A New Improved High Quality Insulation for Aerospace, Automotive, Construction, Appliance, and Industrial Applications

### Description

TEXO™ HTM is a unique needled mat insulation product manufactured from highly resilient fiberglass textile fibers. It is specifically designed for use in aerospace, automotive, construction, and industrial applications.

TEXO™ HTM is odorless, fire resistant, and asbestos free. It is a 100% nonwoven E-type fiber glass mat.

### Performance

TEXO™ HTM provides excellent thermal and acoustical properties. Its resilience and tensile strength offer superior handling characteristics to the OEM fabricator as well as the end-user.

TEXO™ HTM insulation is easily fabricated and may also be used with fiber glass, carbon fiber, and aramid fiber cloth, as well as coated fabrics.

- MAXIMUM OPERATING TEMPERATURE 1200 F
- ASTM E-84-98
  - SMOKE DEVELOPMENT 0
  - FLAME SPREAD 0
- ASTM C-692  
NON-CORROSIVE TO METAL
- THIS PRODUCT IS FREE OF ASBESTOS AND CERAMIC (REFRACTORY) FIBERS

### CONFORMS TO SPECIFICATIONS:

- MIL-I-24244 REVISION C
- MIL-I-16411 REVISION F
- NRC GUIDE 1.36

### Market Applications

- Industrial
  - Removable pads
  - Power generating equipment
  - Furnaces and ovens
- Automotive
  - Headliner, floor, and dash insulation
  - Mufflers and catalytic converters
- Marine
  - Ship turbines
  - Pipe insulation
  - Wallboard
- Aerospace
- Fire stopping and through penetration
- High temperature filtration media

### Product Offerings

TEXO™ HTM mat has good drapeability and conforms to irregular surfaces. It is odorless and will not contribute to corrosion of metal. It resists mold, decay, and vermin. It offers excellent sound absorption properties and resists vibration.

#### STANDARD PRODUCTS

<u>Thickness</u> (in.)	<u>Weight</u> (oz./sq.ft.)	<u>Weight</u> (pcf)
1 / 4	3	9
1 / 2	6	9
3 / 4	12.25	12.25
1	15	11.25

#### HTM mat Manufacturing Tolerances:

Weight: Standard deviation +/- 10%

Thickness: Standard deviation +/- 1/8"

## STANDARD ROLL DIMENSIONS

<u>Thickness</u> (in.)	<u>Length</u> (ft.)	<u>Area.</u> (sq. ft.)	<u>Weight</u> (lbs.)
1 / 4	150	750	140
1 / 2	75	375	140
3 / 4	45	225	172
1	45	225	212

Standard roll width is 60 inches.

### Pallet Dimensions

48" H x 48" W x 62" L

- *Custom widths, thickness, and densities are available through special order. Pricing quoted per request..*

## PRODUCT PACKAGING

<u>Thickness</u> (in.)	<u>Pallet</u> (sq. ft.)	<u>Truckload</u> (sq. ft.)
1 / 4	3,000	108,000
1 / 2	1,500	54,000
3 / 4	900	32,400
1	900	32,400

Products are packaged in cardboard cartons, four rolls per pallet, 36 pallets per truckload. Full pallet shipments only.

All products have a 2" ID cardboard core.

- *Special packaging available for all products. Pricing quoted per request.*

## **ASTM C177 THERMAL CONDUCTIVITY TEST RESULTS**

<b>Test Thickness</b>		<b>Test Density</b>	
<b>mm</b>	<b>31.10</b>	<b>kg/m3</b>	<b>155</b>
<b>inches</b>	<b>1.22</b>	<b>lbs/ft3</b>	<b>9.69</b>

<b>Mean Temperature</b>		<b>Apparent Thermal Conductivity</b>		<b>Thermal Resistance</b>	
<b>C</b>	<b>F</b>	<b>SI</b>	<b>British</b>	<b>SI</b>	<b>British</b>
<b>93</b>	<b>200</b>	<b>0.0447</b>	<b>0.3100</b>	<b>0.6960</b>	<b>3.9500</b>
<b>246</b>	<b>475</b>	<b>0.0659</b>	<b>0.4570</b>	<b>0.4710</b>	<b>2.6800</b>
<b>385</b>	<b>725</b>	<b>0.0909</b>	<b>0.6300</b>	<b>0.3420</b>	<b>1.9400</b>
<b>538</b>	<b>1000</b>	<b>0.1312</b>	<b>0.9090</b>	<b>0.2370</b>	<b>1.3500</b>
<b>646</b>	<b>1194</b>	<b>0.1698</b>	<b>1.1770</b>	<b>0.1830</b>	<b>1.0400</b>

The above thermal conductivity test results were calculated using industry approved ASTM C177 test methods. End use application results using PPG TEXO™ HTM MAT may vary depending on design and engineering, thickness requirements, operating temperatures, construction, and application of product. PPG Industries, Inc. does not accept any liability for end use applications using PPG TEXO™ HTM MAT.

Thermal Conductivity SI Units: W/m-K  
Thermal Resistance SI Units: m2-K/W

Thermal Conductivity British Units: Btu-in/hr-F-ft2  
Thermal Resistance British Units: hr-F-ft2/Btu

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