



## 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 (Class A Rating)
  - SMOKE DEVELOPMENT 5
  - FLAME SPREAD 10
- 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
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### Market Applications

- Industrial
  - Removable pads
  - Power generating equipment
  - Furnaces and ovens
  - Welding Blankets
- Automotive
  - Headliner, floor, and dash insulation
  - Mufflers and catalytic converters
- Marine
  - Ship turbines
  - Pipe insulation
  - Wallboard
- Aerospace
- Acoustical applications
- 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

**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.*

***HTM mat Manufacturing Tolerances:***

*Weight: Standard deviation +/- 10%*

*Thickness: Standard deviation +/- 1/8"*

*Width: Standard deviation +1" / -1/2"*

*Length: Standard deviation +1.0 ft ./ -0.5 ft.*

*Fusing Temperature: >1300 F.*

Products are manufactured at our PPG Shelby, NC facility.

**CONTACT**

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**ASTM C177 THERMAL CONDUCTIVITY TEST RESULTS - 1"**

Test	Thickness		Test Density	
	inches	.995	lbs/ft3	10.9
	mm	25.3	kg/m3	175

Mean Temperature		Apparent Thermal Conductivity		Thermal Resistance	
C	F	SI	British	SI	British
93	200	0.05	0.34	0.52	2.94
260	500	0.07	0.50	0.35	1.98
399	750	0.10	0.70	0.25	1.43
538	1000	0.14	0.94	0.19	1.05
648	1200	0.18	1.23	0.14	0.81

**ASTM C177 THERMAL CONDUCTIVITY TEST RESULTS - 3/4"**

Test	Thickness		Test Density	
	inches	.706	lbs/ft3	12.6
	mm	17.9	kg/m3	202

Mean Temperature		Apparent Thermal Conductivity		Thermal Resistance	
C	F	SI	British	SI	British
93	200	0.05	0.35	0.36	2.03
260	500	0.07	0.49	0.25	1.45
399	750	0.09	0.65	0.19	1.09
538	1000	0.12	0.86	0.14	0.82
648	1200	0.16	1.13	0.11	0.62

### ASTM C177 THERMAL CONDUCTIVITY TEST RESULTS - 1/2"

Test	Thickness		Test Density	
	inches	.482	lbs/ft3	9.37
	mm	12.2	kg/m3	150

Mean Temperature		Apparent Thermal Conductivity		Thermal Resistance	
C	F	SI	British	SI	British
93	200	0.04	0.30	0.29	1.63
260	500	0.06	0.44	0.19	1.10
399	750	0.09	0.60	0.14	0.80
538	1000	0.12	0.82	0.10	0.59
648	1200	0.15	1.03	0.08	0.47

### ASTM C177 THERMAL CONDUCTIVITY TEST RESULTS - 1/4"

Test	Thickness		Test Density	
	inches	.250	lbs/ft3	9.0
	mm	6.36	kg/m3	144

Mean Temperature		Apparent Thermal Conductivity		Thermal Resistance	
C	F	SI	British	SI	British
93	200	0.05	0.32	0.14	0.79
260	500	0.07	0.48	0.09	0.53
399	750	0.09	0.65	0.07	0.38
538	1000	0.13	0.89	0.05	0.28
648	1200	0.17	1.18	0.04	0.21

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