

INSULTHIN® HT

InsulThin HT is a high-temperature, hydrophobic, thin and flexible, microporous, blanket insulation. Microporous insulation is a highly efficient insulation material and has been in service in a variety of industrial, and commercial insulation applications for more than 35 years.

ADVANTAGES

- Extremely low thermal conductivities
- High thermal stability
- Hydrophobic
- Thin profile ideal for applications with limited space
- Highly flexible – easily wraps around pipes as small as 1” IPS.

APPLICATIONS

Pipes, vessels, and equipment with operating temperatures between ambient and 1200°F (see SDS for additional information) in the following industries:

- Refining and petrochemical facilities
- District and campus energy
- Power plants
- Offshore oil production
- Marine

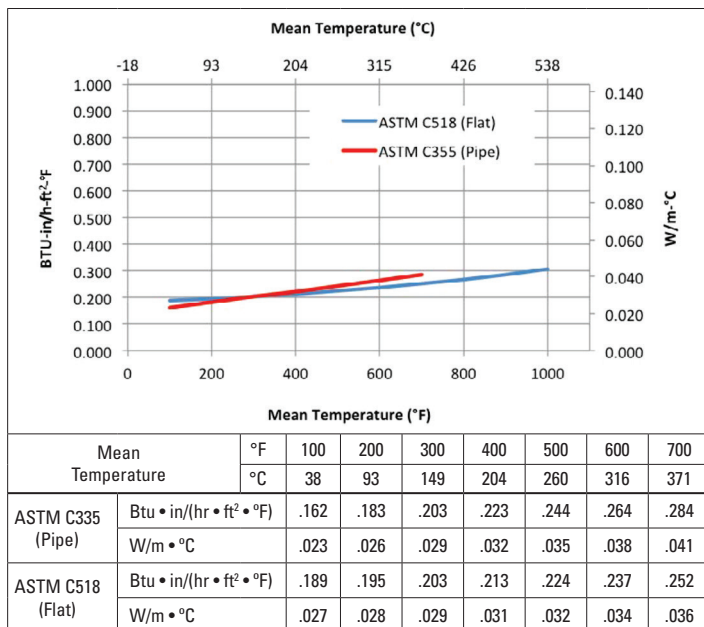
AVAILABLE FORMS AND SIZES

Roll Dimensions	
36” Wide Roll	60” Wide Roll
45 lbs	75 lbs
10mm x 36” x 25’	10mm x 60” x 25’
5mm x 36” x 50’	5mm x 60” x 50’

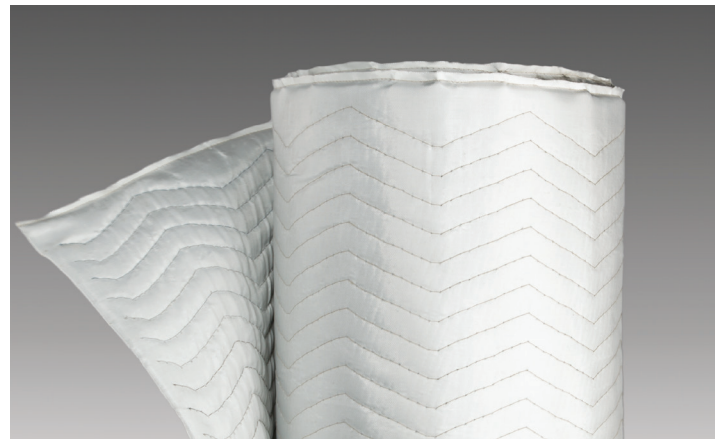
Shipped from calcium silicate manufacturing locations: Fruita, CO and Ruston, LA

Minimum order = 1 full pallet

THERMAL CONDUCTIVITY



InsulThin HT Insulation is tested in accordance with ASTM C518 and ASTM C335.



InsulThin® HT Operating temperature limit: 1200°F (650°C)

SPECIFICATION COMPLIANCE

Core Density (Avg.)	12 pcf (192kg/m³)
Thickness	0.2in (5mm) 0.4in (10mm)
ASTM C165 Compressive Resistance at 10% deformation	>3.6 psi
ASTM C356 Linear Shrinkage (%) width, length & thickness at 1200°F	<2% L&W <10% T
ASTM C411 Sag Resistance	<5%
ASTM C411 Hot Surface Performance at 1200°F	Passes
ASTM C447 Recommended Continuous Operating Temperature (*See SDS for additional information)	1200°F(650°C)
ASTM C665 Corrosivity to Steel	Passes
ASTM C795/C871/C692 Corrosion: Austenitic Stainless Steel	Passes
ASTM C1101 Flexibility	Flexible
ASTM C1104 Water Vapor Sorption	<5%
ASTM C1511 Water Retention After 600°F soak for 24h	<5%
ASTM C1617 Corrosion	Meets <1ppm Cl
ASTM C1676 Standard Specification for Microporous Thermal Insulation, Type II, Grade 2B ¹	Passes
ASTM E84 Surface Burning Characteristics	Flame Spread -0 Smoke Developed -0
NRC Reg. Guide 1.36	Passes

¹ASTM C1676 Type II, Grade 2B specifies a maximum use temperature of 1832°F (1000°C) for microporous insulation. However, though JM InsulThin HT will perform according to ASTM C1676 Type II, Grade 2B up to those temperatures, JM recommends a maximum continuous operating temperature of 1200°F.

INSULTHIN® HT

HYDROPHOBIC MICROPOROUS THIN BLANKET INSULATION

DATA SHEET

PRODUCT CERTIFICATION

When ordering material to comply with any government specification or any other listed specification, a statement of that fact must appear on the purchase order. Government regulations and other listed specifications require specific lot testing, and prohibit the certification of compliance after shipment has been made. There may be additional charges associated with specification compliance testing. Please refer to JM-IND-CSP for Certification Procedures and Charges. Call customer service for more information.

ACOUSTIC DATA - NRC RATING

Absorption Coefficient, α		
Frequency (Hz)	InsulThin HT 10 mm	InsulThin HT 10 mm Microporous Blanket
100		0.07
125		0.01
160		0.05
200		0.05
250		0.05
315		0.08
400		0.16
500		0.30
630		0.48
800		0.52
1000		0.33
1250		0.25
1600		0.27
2000		0.35
2500		0.36
3150		0.31
4000		0.29
5000		0.22
SAA		0.27
NRC*		0.25

* NRC is an average of absorption coefficient values at frequencies of 250, 500, 1000, and 2000 Hz. The average is rounded to the nearest 0.05.



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Technical specifications as shown in this literature are intended to be used as general guidelines only. Please refer to the Safety Data Sheet and product label prior to using this product. The physical and chemical properties of the InsulThin® HT listed herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Any references to numerical flame spread or smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. Check with the Regional Sales Office nearest you for current information.

All Johns Manville products are sold subject to Johns Manville's standard Terms and Conditions, which includes a Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville standard Terms and Conditions or for information on other Johns Manville thermal insulation and systems, visit www.jm.com/terms-conditions or call (800)654-3103.