

PRODUCT DATA SHEET

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.

THE ADVANTAGES

- Recommended continuous operating temperature 1200°F
*See SDS for additional information.
- Extremely low thermal conductivities
- High thermal stability
- Hydrophobic and water repellent
- Thin profile ideal for applications with limited space
- Highly flexible – easily wraps around pipe as small as 1" IPS.

APPLICATIONS

High-temperature pipe, vessels, and equipment applications in the following industries:

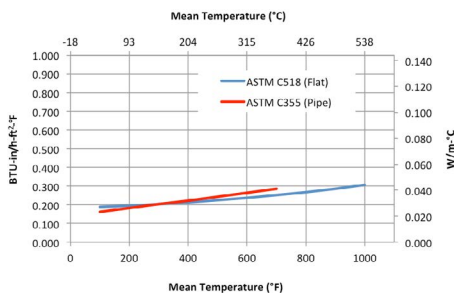
- Refining and petrochemical facilities
- Power plants
- Offshore oil production
- Marine

AVAILABLE FORMS AND SIZES

Roll Dimensions	
36" Wide Roll	60" Wide Roll
55lbs	92lbs
10mm x 36" x 25'	10mm x 60" x 25'
5mm x 36" x 50'	5mm x 60" x 50'

Shipped from Industrial Insulation Group calcium silicate manufacturing locations: Fruita, CO and Ruston, LA
Minimum order = 1 full pallet

THERMAL CONDUCTIVITY



	Mean Temperature	°F						
		100	200	300	400	500	600	700
ASTM C335 (Pipe)	Btu · in/(hr · ft² · °F)	.162	.183	.203	.223	.244	.264	.284
	W/m · °C	.023	.026	.029	.032	.035	.038	.041
ASTM C518 (Flat)	Btu · in/(hr · ft² · °F)	.189	.195	.203	.213	.224	.237	.252
	W/m · °C	.027	.028	.029	.031	.032	.034	.036

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 (psi)	>3.6
ASTM C356 Linear Shrinkage (%) width, length & thickness at 1200°F	<2 L&W <10T
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.

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 IND-CSP-3 for Certification Procedures and Charges. Call customer service for more information.

PRODUCT CERTIFICATION

**Please visit our website at www.jm.com/industrial
**CUSTOMER SERVICE, TECHNICAL & GENERAL
 INFORMATION (800) 866-3234****

ACOUSTIC DATA - NRC RATING

Absorption Coefficient, α	
Frequency (Hz)	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

Industrial Insulation Group, LLC manufactures MinWool-1200® mineral fiber pipe, block and a variety of other insulations; Thermo-12® Gold Calcium Silicate pipe and block insulation; Microporous Blanket Insulation; Super Firetemp® fireproofing board; SprouleWR-1200® Perlite pipe and block insulation; high-temperature adhesives, and insulating finishing cement. The physical and chemical properties presented 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. Numerical flame spread and smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. Check with the Customer Service Office to assure current information. All Industrial Insulation Group products are sold subject to the Johns Manville Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville Limited Warranty and Limitation of Remedy, email info.industrial@jm.com.

**CUSTOMER SERVICE
 TECHNICAL & GENERAL INFORMATION
 (800) 866-3234**

