



MPT® Precision Cut

PIPE INSULATION

DESCRIPTION

MPT Precision Cut Mineral Wool Pipe Insulation is made of inorganic fibers derived from basalt, a volcanic rock, with thermosetting resin binder. Advanced manufacturing technology ensures consistent product quality, with high fiber density and low shot content, for excellent performance in thermal control and fire resistance applications. MPT-PC is a factory “V” grooved mineral wool board manufactured to specific pipe or vessel sizes with a variety of facing options. It ships flat in 4 mil plastic and allows easy forming at the job site.

ADVANTAGES

Ships Flat. Packaged flat in 4 mil plastic for some weather protection (see guide spec), freight efficiency and storage space utilization.

Thermal Performance. Good thermal conductivity values help maximize control of heat loss, contributing to reduced operating costs and greater energy savings.

Light Weight, Low Dust, Protected Outer Surface. Easy to handle and fabricate, MPT-PC is easy to cut with a knife. Clean handling properties and factory applied facers help reduce skin irritation and minimize job cleanup time and expense.

Mold Resistant. MPT-PC does not support the growth of fungi.

APPLICATIONS

MPT-PC is produced to fit NPS & tubing sizes for commercial and industrial applications at temperatures ranging from ambient to 1200°F(650°C). This formed pipe/vessel insulation is easily fabricated, cutting cleanly and easily with a knife. Very low in-service shrinkage helps prevent gaps from forming at joints, preventing costly thermal leaks. The insulation is designed to be factory or field jacketed. It may be installed directly on hot surfaces; system shutdown and staged heat-up are not required.

AVAILABLE TYPES

Standard Thicknesses

- Single Layer- 1” thick up to 4” thick
- Double Layer- Over 4” thick in ½” increments
- Sizes range from ½” to 72” pipe sizes
- Available in iron and copper tubing sizes

Facings Available

- Sizes ½” through 2” is supplied with no facing
- Sizes 2.5” and above are supplied with a fiberglass mat facing
- Other facings available include ASJ and FSK/FRK



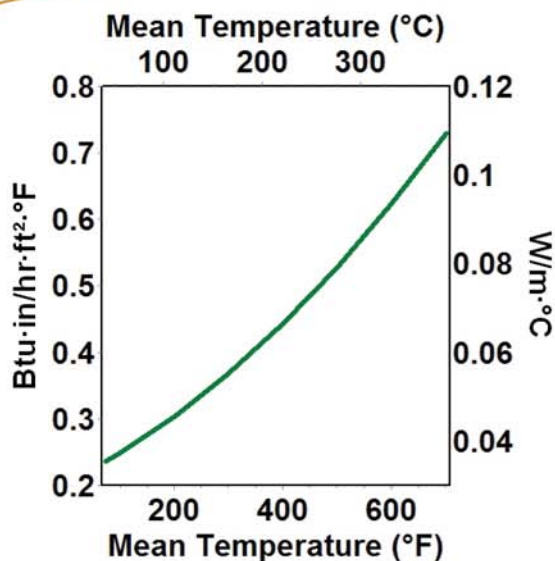
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OPERATING TEMPERATURE LIMIT: 1200°F(650°C)

LINEAR SHRINKAGE AFTER 24 HRS. AT TEMPERATURE

Temperature Shrinkage		
°F	°C	(%)
1050	566	0
1200	649	<2

SPECIFICATION COMPLIANCE INSULATION	
ASTM C447 Maximum Service Temperature	1200°F(650°C)
ASTM C547 Material Specification	Passes
ASTM C585 Dimensions of Pipe Insulation	Passes
ASTM C795/C871/C692	Passes
ASTM C1335 Shot Content	<25%
ASTM C1338 Fungi Resistance	Passes
ASTM E84 Flame Spread/Smoke Developed	25/50 or less
CAN/UL C-S-102	25/50 or less
Nuclear Regulatory Guide 1.36	Passes
MIL-I-24244	Passes
Recovery after 10% Compression	100%



THERMAL CONDUCTIVITY

Mean Temperature		Thermal Conductivity	
°F	°C	Btu · in/(hr · ft² · °F)	W/m · °C
75	23	0.23	0.034
100	38	0.25	0.036
200	93	0.30	0.044
300	149	0.37	0.053
400	204	0.44	0.064
500	260	0.53	0.076
600	316	0.62	0.090
700	371	0.73	0.104

* MPT Pre Formed Pipe Insulation is tested in accordance with ASTM C335.

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

QUALITY STATEMENT

IIG Products are designed, manufactured and tested to strict quality standards in our own facilities. This along with third party auditing is your assurance that this product delivers consistent high quality.



Industrial Insulation Group, LLC is a Johns Manville company. IIG manufactures MinWool-1200® mineral fiber pipe, block and a variety of other insulations; Thermo-12® Gold Calcium Silicate pipe and block 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 IIG Limited Warranty and Limitation of Remedy. For a copy of the IIG Limited Warranty and Limitation of Remedy, email - info@iig-llc.com.