

## PRODUCT DATA SHEET

### MinWool-1200 Precision Cut Pipe Insulation

MinWool-1200 Precision Cut (PC) 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. PC Pipe insulation 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.

### THE 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, 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.** PC pipe insulation does not support the growth of fungi.

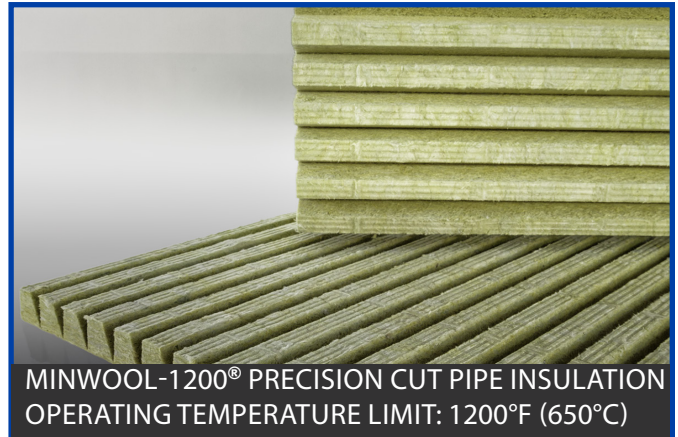
### APPLICATIONS

PC pipe insulation 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.

### ADDITIONAL INFORMATION AND SDS

Please visit our website at [www.jm.com/industrial](http://www.jm.com/industrial)

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### AVAILABLE FORMS AND SIZES

#### 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

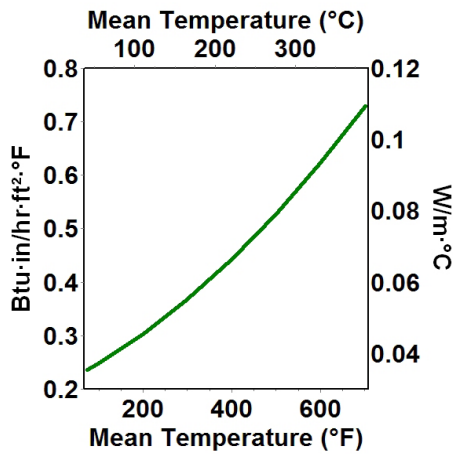
#### Facings Available

- Sizes ½" through 2" is supplied with no facing
- Sizes 2½" and above are supplied with a fiberglass mat facing
- Other facings available include ASJ and FSK

#### Linear Shrinkage After 24 Hrs. at Temperature

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

## THERMAL CONDUCTIVITY



| Mean Temperature   | °F | 75   | 100  | 200  | 300  | 400  | 500  | 600  | 700  |
|--------------------|----|------|------|------|------|------|------|------|------|
|                    | °C | 24   | 38   | 93   | 149  | 204  | 260  | 316  | 371  |
| Btu·in/(hr·ft²·°F) |    | .23  | .25  | .30  | .37  | .44  | .53  | .62  | .73  |
| W/m·°C             |    | .034 | .036 | .044 | .053 | .064 | .076 | .090 | .104 |

\* MinWool-1200 Precision Cut Pipe Insulation as tested in accordance with ASTM C518.

## SPECIFICATION COMPLIANCE

|   |   |
|---|---|
| ASTM C447<br>Maximum Service Temperature                        | 1200°F(650°C)                                       |
| ASTM C547, Type III<br>Material Specification                   | Complies  |
| ASTM C585<br>Dimensions of Pipe Insulation                      | Passes  |
| ASTM C795/C871/C692<br>Corrosion: Austenitic<br>Stainless Steel | Passes  |
| ASTM C1335 Shot Content   | <25%  |
| ASTM C1338 Fungi Resistance                                     | Passes  |
| ASTM E84<br>Surface Burning Characteristics                     | Flame Spread -25<br>Smoke Developed -<br>50 or less |
| CAN/ULC S102  | 25/50 or less                                       |
| Nuclear Regulatory Guide 1.36                                   | Passes  |
| MIL-I-24244   | Passes  |
| Recovery after 10% Compression                                  | 100%  |

## 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.

## QUALITY STATEMENT

Industrial Insulation Group 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 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](mailto:info.industrial@jm.com).

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