

### PRODUCT DATA SHEET

#### MinWool-1200 Pipe Insulation

MinWool-1200 Pipe Insulation is made of inorganic fibers derived from basalt, a volcanic rock, with a thermosetting resin binder. Advanced manufacturing technology ensures consistent product quality, with high fiber density and low shot content, for excellent performance in high-temperature thermal control and fire resistance applications.

#### THE ADVANTAGES

##### Thermal Performance

Good thermal conductivity values help minimize and control heat loss, contributing to reduced operating costs and greater energy savings. High dimensional stability and low shrinkage reduce the potential for gaps forming at joints.

##### Lightweight, Low Dust

Easy to handle and fabricate, MinWool-1200 is easy to cut with a knife. Clean handling properties help reduce irritation and minimize job clean-up time and expense.

##### Low Smoke & Flame Spread

MinWool-1200 has a flame spread rating of 5 and a smoke developed rating of 0 when tested in accordance with ASTM E84, UL 723, CAN/ULC-S102-M.

##### Non-Combustible

MinWool-1200 is rated as non-combustible in accordance with ASTM E136 and CAN4-S114-M.

##### Mold Resistant

MinWool-1200 does not support growth of fungi.

**Boiling Water Tested (BWT)** pipe insulation, specifically formulated to pass the Tri-Services Administration, (Navy, Army, and Air Force) test for continued performance following intermittent flooding conditions

#### APPLICATIONS

MinWool-1200 Pipe Insulation provides excellent thermal insulation performance for mechanical/power and process piping systems operating from sub-ambient to 1200°F(650°C). This molded pipe 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 field-jacketed. It may be installed directly on hot surfaces; system shutdown and staged heat-up are not required.

#### AVAILABLE FORMS AND SIZES

##### Standard Thicknesses Available:

1" to 6" (25mm-152mm) in ½" (15mm) Increments

**Standard Length Available:** 36" (914mm)

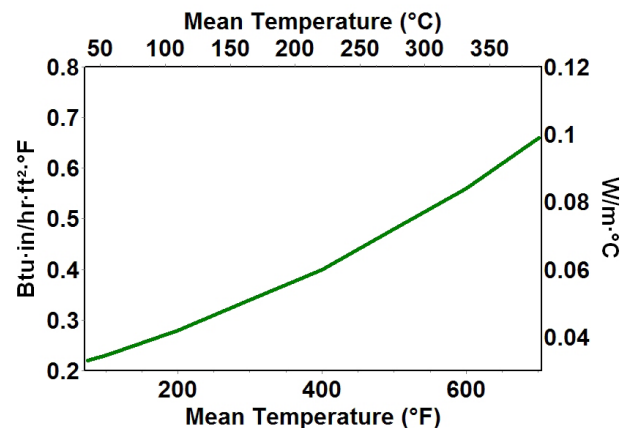
Pipe Sizes		
(in.)	(mm)	Form
½ - 6	15-152	One Piece
7-24	175-600	Two Piece
25-44	625-1100	Four Piece

For pipe sizes 19" to 24" (457 mm to 600 mm), some thick wall pieces are shipped as four piece quads. Thick wall material is furnished in double layers.



**MINWOOL-1200 PIPE INSULATION**  
OPERATING TEMPERATURE LIMIT: 1200°F (650°C)

#### THERMAL CONDUCTIVITY



Mean Temperature	°F	75	100	200	300	400	500	600	700
	°C	24	38	93	149	204	260	316	371
<b>Btu · in/(hr · ft<sup>2</sup> · °F)</b>		0.22	.23	.28	.34	.40	.48	.56	.66
<b>W/m · °C</b>		.032	.033	.040	.049	.058	.069	.081	.094

\* MinWool-1200 Pipe Insulation as tested in accordance with ASTM C335.

#### ADDITIONAL INFORMATION AND SDS

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

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### ACOUSTICAL PERFORMANCE

ASTM E1222 - Standard Test Method for Laboratory Measurement of the Insertion Loss of Pipe Lagging

Thickness (in/mm)	Minimum Insertion Loss, dB												
	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
1.5/38	-1	1	2	6	8	16	16	17	18	21	20	23	31
2.0/51	0	1	1	7	8	17	19	22	22	26	27	30	36
3.0/76	0	0	1	8	10	17	17	23	24	28	29	32	36
4.0/102	7	3	6	11	13	21	20	31	30	33	34	35	42

\*All tests conducted with aluminum jacketing.

Sound Absorption Coefficients

Thickness (in/mm)	1/3 Octave Band Center Frequencies, Hz							NRC
	125	250	500	1000	2000	4000		
1.5/38	0.19	0.80	1.01	1.03	0.99	0.99	0.95	
2.0/51	0.38	0.93	1.01	1.00	0.97	1.00	1.00	
3.0/76	0.84	0.89	0.97	1.02	1.02	1.00	1.00	
4.0/102	0.80	0.90	0.96	1.03	0.99	1.01	0.95	

### SPECIFICATION COMPLIANCE

ASTM C447 Maximum Service Temperature	1200°F (650°C)
ASTM C547 Types I, II, IV Material Specification	Passes
ASTM C585 Dimensional Pipe Insulation	Complies
ASTM C665 Corrosivity to Steel	Passes
ASTM C795/C871/C692 Corrosion: Austenitic Stainless Steel	Passes
ASTM C1104 Water Vapor Sorption	<1% by Weight, <.02% by Volume @120°F(50°C), 95% RH
ASTM C1338 Fungi Resistant	Passes
ASTM E84 Surface Burning Characteristics	Flame Spread -5 Smoke Developed -0
ASTM E136 Non-Combustible	Passes
CAN/CGSB-51.9	Class 3
NRC Reg. Guide 1.36	Passes
Recovery after 10% Compression	100%
Shot Content	<25%

### LINEAR SHRINKAGE AFTER 24 HRS. AT TEMPERATURE

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

### 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.

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