



MinWool-1200® Pipe

HIGH TEMPERATURE INSULATION

DESCRIPTION

IIG 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.

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.

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

Mold Resistant. IIG MinWool-1200 does not support growth of fungi.

APPLICATIONS

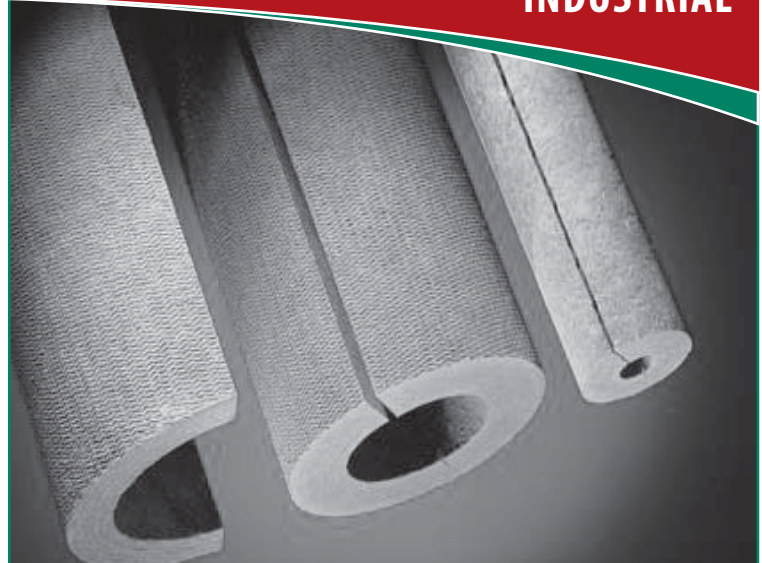
MinWool-1200 Pipe Insulation provides excellent thermal insulation performance for mechanical/power and process piping systems operating from sub-ambient to 1200°F(650°C). This molded pipe insulation is easily fabricated, cutting cleanly and easily with a knife. Very low in-service shrinkage helps prevent 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 THICKNESSES

Standard Thicknesses..... 1-6" in ½" Increments
(25, 38, 51, 64, 76, 89, 102, 114, 127, 140, 152mm)

Pipe Sizes		
(in.)	(mm)	Form
½ - 6	15-150	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. MinWool-1200 pipe insulation is 36" (914 mm) in length, and is available in thicknesses from 1" to 6" (25 mm to 150 mm) in ½" (15 mm) increments. Thick wall material is furnished in double layers.



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Operating Temperature Limit: 1200°F (650°C)

SPECIFICATION COMPLIANCE

ASTM C447 Maximum Service Temperature	1200°F (650°C)
ASTM C547 Material Specification	Types I, II, IV
ASTM C585 Dimensional Pipe insulation	Complies
ASTM C665 Corrosivity to Steel	Passes
ASTM C795/C871/C692	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 Flame Spread/Smoke Developed	5/0
ASTM E136 Noncombustible	Passes
CAN/CGSB-51.9	Class 3
NRC Reg. Guide 1.36	Passes
Recovery after 10% Compression	100%
Shot Content	<25%
R-Value @ 75°F	4.0 per inch of thickness

LINEAR SHRINKAGE AFTER 24 HRS. AT TEMPERATURE

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

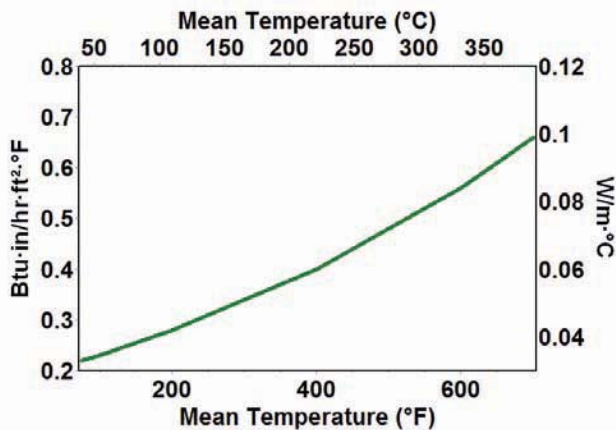
ADDITIONAL INFORMATION AND MSDS

Please visit our website at www.iig-llc.com.

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THEMAL CONDUCTIVITY*



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Mean Temperature		Thermal Conductivity	
°F	°C	Btu · in/(hr · ft ² · °F)	W/m · °C
75	24	0.22	0.032
100	38	0.23	0.033
200	93	0.28	0.040
300	149	0.34	0.049
400	204	0.40	0.058
500	260	0.48	0.069
600	316	0.56	0.081
700	371	0.66	0.094

* MinWool Pipe Insulation as 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 Calsilite/Johns Manville joint venture. 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.

**CUSTOMER SERVICE,
TECHNICAL & GENERAL INFORMATION**
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www.iig-llc.com