

MinWool-1200 Pipe and Tank Wrap

FSP Faced High Temperature Insulation

Description

MinWool-1200 Pipe and Tank Wrap 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-resistant applications.

Applications

MinWool-1200 Pipe and Tank Wrap Insulation provides excellent thermal insulation performance for mechanical equipment, structural members, vessels, furnaces, large diameter piping, and any other irregularly shaped systems operating from sub-ambient to 1200°F (649°C). Pipe and Tank Wrap Insulation is easily fabricated, cutting cleanly with a knife. Very low in-service shrinkage helps prevent gaps from forming at joints, preventing costly thermal leaks.

Maximum use temperature of facing and adhesive is lower than the maximum use temperature of the insulation. Insulation thickness must be reviewed for each application. It is not recommended for use as an inside layer in nested applications.

Advantages

Unique Bio-Soluble Fiber.

To ensure this product is free from health risk, its chemical composition has been formulated to make the fibers bio-soluble, meaning they are more quickly dissolved in bodily fluids and eliminated by the body's natural functions. However, they retain their superior thermal, acoustical and fire-resistant properties. We believe quality and safety are two of the most important aspects of building insulations.



MinWool-1200 Pipe and Tank Wrap has been tested according to EU Protocol ECB/TM/27, Revision 7, Directive 97/69/EC and exceeds the regulatory requirements for solubility.

Excellent Thermal Performance. Good thermal conductivity values help maximize control of 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.

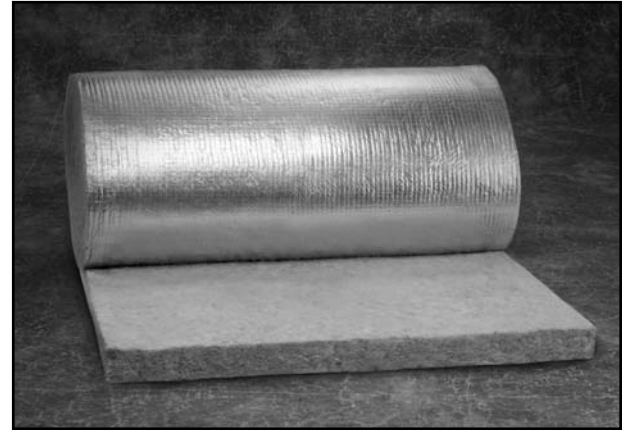
Good Compressive Strength. Pipe and Tank Wrap insulations are semi-rigid to rigid and they maintain structural integrity under severe operating conditions. Thickness stays uniform facilitating the installation of the metal jacket.

Lightweight, Low Dust. Easy to handle and fabricate, these blankets cut cleanly with a knife. No sawing is required. Clean handling properties help reduce irritation and minimize job clean-up time and expense. It may be installed directly on hot surfaces; system shut-down and staged heat-up are not required.

Noncombustible. These insulation blankets have a flame spread rating of 5 and a smoke developed rating of 0 when tested in accordance with ASTM E 84, UL 723, CAN/ULC-S102-M. They are rated as noncombustible in accordance with ASTM E 136 and CAN4-S114-M.

Does not promote growth of fungi or bacteria. Does not rot or sustain vermin.

CFC and HCFC free product and process.



Availability

MinWool-1200 Pipe and Tank Wrap is foil faced and has a nominal density of 8 pcf (128 kgs/m³).

Thickness		Width		Roll Length	
in.	mm	in.	meters	ft.	meters
1½	38	48	1.22	18	5.5
2	51	48	1.22	16	4.9
2½	64	48	1.22	14	4.3
3	76	48	1.22	12	3.7
3½	89	48	1.22	10	3.1
4	102	48	1.22	8	2.4

Material Safety Data Sheet (MSDS)

For the current MSDS for this product, visit www.iig-llc.com.

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Specification Compliance

ASTM C 411, Maximum Continuous Use Temperature	1200°F (649°C)
ASTM C 553, Mineral Fiber Blanket Specification	Type VII
ASTM E 84, UL 723, CAN/ULC-S102-M, Flame Spread/Smoke Developed	5/0
ASTM E 136, CAN4-S114-M	Noncombustible
ASTM C 356, In-Service Shrinkage	0% at 1050°F (566°C); <1% at 1200°F (649°C)
ASTM C 1104, Water Vapor Sorption	<1% by Weight at 120°F (49°C), 95% RH
ASTM C 1335, Shot Content	<20%
CAN/CGSB-51.11	Class 5
EU Protocol ECB/TM/27, Revision 7, Directive 97/69/EC for Bio-Soluble Fiber	Exceeds
ASTM C 795, Thermal Insulation for Use in Contact with Austenitic Stainless Steel	Passes

Thermal Conductivity

Mean Temperature		Thermal Conductivity ("k")	
°F	°C	Btu•in/(hr•ft²•°F)	W/m • °C
75	24	0.23	0.033
100	38	0.25	0.036
200	93	0.31	0.045
300	149	0.38	0.055
400	204	0.45	0.065
500	260	0.53	0.076
600	316	0.62	0.089
700	371	0.73	0.105

Government 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.

For Customer Service and Order Placement

(866) 444-4380
Fax: (866) 444-4766

For Sales Information

(800) 866-3234
Fax: (877) 758-6096

For Technical Information

(800) 872-0338
Fax: (970) 858-9641



908 John Bussey Drive
Phenix City, AL 36869
www.iig-llc.com

The physical and chemical properties of the MinWool-1200 Pipe and Tank Wrap High Temperature Insulation 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, call (800) 334-7997.**