



SPECIALTY PRODUCTS & INSULATION

Mineral Wool Pipe Insulation

Description

Mineral Wool Pipe Insulation is a precision cut pipe covering composed of high density stone wool made from naturally occurring Basalt Rock. The covering is produced in two half sections and can be supplied plain or jacketed with materials such as: all service jacket (ASJ), foil scrim kraft (FSK), Glassmat or other suitable jacketing. Mineral wool pipe insulation is available in three foot lengths in sizes from ½” through 28” IPS and wall thicknesses from 1 to 6”. Sizes larger than 28 “IPS are available in curved segments. See SPI RigidFlex® Insulation cut to size as an alternate insulation for larger pipe sizes and tanks.

Uses

Mineral wool pipe insulation can be used in a wide range of hot or cold pipe applications ranging from -20°F (-29°C) to 1200°F per ASTM C411 (650°C) making it ideal for use on:

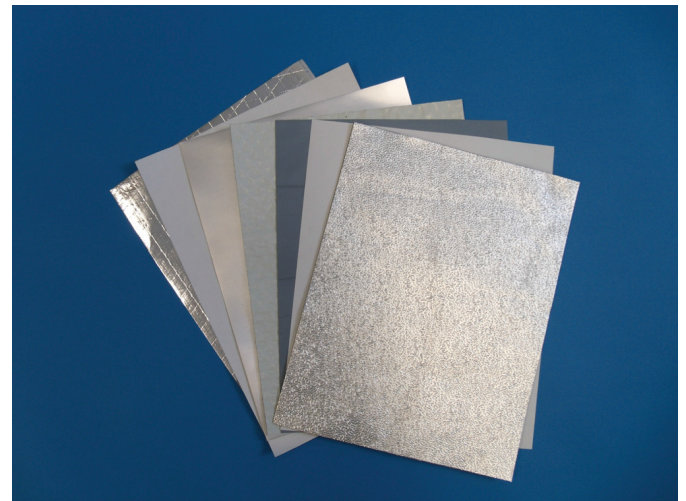
- High temperature pipe lines typically found in industrial power and petrochemical plants, steam production and supply pipe, etc.
- Commercial hot and cold water supply.
- Refrigerated water and other related applications.

Advantages

- Good dimensional stability (thermal).
- Good mechanical abuse and compressive strength.
- Low moisture sorption.
- Fire resistant and non combustible.
- Excellent sound properties.
- Non corrosive.
- Chemically inert, minimizes indoor air quality pollutant potential.
- Made from natural, inorganic material with high recycled content.
- Resistant to the growth of fungi, mold or bacteria.
- Does not sustain vermin.



Small to large pipe sizes, fittings are available as well as curved segments for tank walls.



A variety of jacketing materials are available to meet service and specification requirements.

Performance and compliance use data is based on fabrication of Thermal Conductivity as manufactured by Roxul FabRock® HT.

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Performance and Compliance

ASTM C612 Mineral Fiber Block and Board Thermal Insulation Type IVB.

ASTM C547 Standard Specifications for Mineral Fiber Pipe Insulation Type 1 Grade A (850°F).

ASTM C585-90 (2004)
Standard Practice for Inner and Outer Diameters of Rigid Thermal Insulation for Nominal Sizes of Pipe and Tubing (NPS System).

ASTM C450 Standard Practice for Fabrication of Thermal Insulating Fitting Covers for NPS Piping, and Vessel Lagging.

Fire Performance

ASTM E 84 (UL723) Surface Burning Characteristics
Flame Spread 5, Smoke Developed 0

CAN/ULC S102 Surface Burning Characteristics
Flame Spread 5, Smoke Developed 0

ASTM E 136 Behavior of Materials at 750°C (1382°F)
Non-Combustible

CAN4 S114 Test for Non-Combustibility
Non-Combustible

Maximum Service Temperature

ASTM C 411 Hot Surface Performance
In Compliance with ASTM C612
@ 1200°F (650°C).

Moisture Resistance

ASTM C 1104 Moisture Sorption 0.03%

Dimensional Stability

ASTM C 356 Linear Shrinkage <0.4%

Thermal Conductivity

ASTM C177

BTU.in/hr. °F.ft² (W/m.K)

25°F (-4°C)	0.221 (0.0318)
75°F (24°C)	0.239 (0.0345)
100°F (38°C)	0.253 (0.0365)
200°F (93°C)	0.299 (0.0432)
300°F (149°C)	0.350 (0.0504)
400°F (204°C)	0.383 (0.0553)
500°F (260°C)	0.464 (0.0669)
600°F (316°C)	0.549 (0.0792)
700°F (371°C)	0.660 (0.0952)

Thermal Resistance

ASTM C 518 (C 177) R-value/inch @ 75°F, 4.2 hr.ft².F/Btu (at time of Mftr). RSI value/25.4 mm @ 24°C
0.74 m²K/W.

Corrosion Resistance

ASTM C 665 Corrosiveness Passed.
*ASTM C 795** Stainless Steel Stress Corrosion
Specification as per Test
Methods C871 and C692: U.S. Nuclear
Regulatory Commission, Reg. Guide
#1.36: U.S. Military Specifications
MIL-I-24244 (all versions including B
and C). Conforms
*“Provisions for lot testing may be
required, consult manufacturer.”

Compressive Strength

ASTM C165 at 10% 720 psf (34.4 kPa)



**SPECIALTY PRODUCTS
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Nov 2018 - Mineral Wool Pipe Insulation

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