



THERMALLY EFFICIENT-LIGHTWEIGHT STONE WOOL PIPE INSULATION

GreatROC® Field Pre Formed stone wool insulation is a nominal 10 pound density half- cylinder pipe insulation manufactured from stone wool wool that is bonded with a high temperature binder. It is produced to fit precise NPS and copper tubing pipe sizes for commercial and industrial applications ranging from -20°F(-29°C) to 1400°F (760°C).

GreatROC® Field Pre Formed stone wool incorporates an additive which makes the insulation water repellent*. The final product is shipped flat with pressure sensitive glue in joints. Once on site it can be formed to half cylinders easily.

Physical Properties

All values in () are metric conversions.

Density Nom. 10 lb./ft³ (168 kg./m³)

Thermal Conductivity:

°F.(°C) mean temp.= Btu in./h ft²

°F (W/m K)[per ASTM C335-89 with C1045 calculations]

75°F (24°C) mean temp.= 0.23 (0.035)

200°F (93°C) mean temp.= 0.29 (0.042)

300°F (149°C) mean temp.= 0.35 (0.050)

500°F (260°C) mean temp.= 0.48 (0.069)

600°F (316°C) mean temp.= 0.56 (0.080)

Service Temperature [C411-87] up to 1400°F*(760°C*)

ASTM C165 with a compressive strength of 720psf (34.4kPa)

@ 10% compression

Corrosion [Steel, Alum., Copper].....None

Moisture Adsorption [Vapor]..... Less than 1% Water wicking resistant* and Non-hygroscopic.*

Does not promote growth of fungi or bacteria.

Stone wool is "Incombustible": ASTM E136

Surface Burning Characteristics: ASTM E84 Test Method

Flame Spread = 25 or Less Smoke Developed = 50 or Less

Specifications

Pipe Insulation:

ASTM C547 and ASTM C585

U.S. Federal Specification HH-I-558B

Jacketing:

ASJ or FSK / FRK:

ASTM C1136 and U.S. Federal Spec. HH-B-100B

Underwriters Laboratories UL-723

Stainless Steel Stress Corrosion Specification:

Conforms to ASTM C795, per test methods

C871, & C692 MIL-I-24244 B & C [ships] and NRC

Reg. Guide #1.36

Forms	Iron Pipe	Copper	Ducts
3 Ft. half cylinders	½" to 36"	⅝" to 12⅝"	4" to 72". Larger sizes are quad-segmented

Thickness: Single layer from 1" to 4". Double layered from 4½" to 8" in ½" increments per ASTM C585.

Jacketing Options

GreatROC® Field Pre Formed standard pipe insulation is furnished with no facing {plain} for sectional pipe sizes up to 2" NPS, with glass mat facing for 2" NPS and larger, and optional in all pipe sizes with ASJ/SSL [All Service Jacket with Self-Sealing-Lap].

Other jacketing such as F.S.K. [FoilScrim-Kraft] and TGH-1000® are available upon request.

Caution: For high temperature applications, sufficient insulation thickness must be used to maintained outer surface temperatures below 150°F.(66°C.) for ASJ and FSK facings.

* Consult manufacturer for limitations under elevated temperature conditions.