



THERMALLY EFFICIENT-LIGHTWEIGHT STONE WOOL 8.0 LB/FT³ PIPE INSULATION

GreatROC® PF is a V-groove nominal 8 pound density Preformed half- cylinder pipe insulation manufactured from stone wool bonded together with a high temperature binder. It is produced to fit precise NPS and copper tubing pipe sizes for commercial and industrial applications with a max service temperature of 1400 °F (650 °C).

GreatROC® PF stone wool incorporates an additive which makes the insulation water repellent*. The product is shipped in pre-formed half cylinders. Please see back of sheet for detailed specs from Roxul.

Jacketing Options

GreatROC® PF 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 & tubing sizes with ASJ/SSL [All Service Jacket with Self-Sealing-Lap]. Other jacketing such as F.S.K. [Foil-Scrim-Kraft] 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.

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:

Confirms 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.

* Consult manufacturer for limitations under elevated temperature conditions.

TECHNICAL INFORMATION

| Properties | Performance | | | | | | | | Norms |
|--|---|-------|-------|-------|--|-------|-------|-------|---|
| Thermal conductivity | T _m (°F) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | ASTM C177 |
| | λ (BTU.in/hr.ft ² .°F) | 0.24 | 0.30 | 0.35 | 0.38 | 0.46 | 0.55 | 0.66 | |
| | T _m (°C) | 38 | 93 | 149 | 204 | 260 | 316 | 371 | |
| | λ (W/mK) | 0.035 | 0.043 | 0.050 | 0.055 | 0.067 | 0.079 | 0.095 | |
| Maximum Service Temperature | Hot Surface Performance: 1200°F- (650°C) Non-Combustible Linear Shrinkage: ≤ 0.4 % at 1200°F- (650°C) | | | | | | | | ASTM C411 ASTM E136 / CAN4 S114 ASTM C356 |
| Reaction to fire | Surface burning characteristics Flame spread index = passed ; Smoke development index = passed | | | | | | | | ASTM E84 (UL 723) CAN/ULC S102 |
| Density | Actual Density = 6.5 lb/ft ³ - (Density 105 kg/m ³) | | | | | | | | ASTM C303 |
| Corrosion resistance** | Stress Corrosion Cracking Tendency of Austenitic Stainless Steel = Passed Corrosion of Steel = Passed | | | | | | | | ASTM C692 ASTM C665 |
| Chemical Analysis* | (Salts: Cl ⁻ , F ⁻ , Na ⁺ , SiO ₄ ⁻⁴) Results fall within acceptability limits of ASTM C795 | | | | | | | | ASTM C795 / ASTM C871 |
| Thermal Resistance | R-Value / inch @ 75°F RSI value / 25.4mm @ 24°C | | | | 4.2 hr. ft ² .°F/BTU 0.74 m ² K/W | | | | ASTM C518 (C177) |
| Water Absorption/ Vapor Sorption | < 1 % Weight | | | | | | | | ASTM C1104 |
| Compressive strength | 720psf (34.4kPa) @ 10 % compression | | | | | | | | ASTM C165 |
| Compliance | Type IVB | | | | | | | | ASTM C612 |
| ROCKWOOL Technical Insulation offers a wide range of facings, dimensions and thicknesses. Please contact us for further information. | | | | | | | | | |

** Provisions for lot testing may be required, consult manufacturer.

Surface Burning Characteristics: UL Listed to Canadian standard
CAN/ULC S102 ; UL Classified to UL 723

