



THERMALLY EFFICIENT-LIGHTWEIGHT STONE WOOL 10.0 LB/FT³ PIPE INSULATION

GreatROC® PF is a V-groove nominal 10 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

Product properties in accordance with ASTM C547

	Performance								Norms
Thermal conductivity	Tm (°F)	100	200	300	400	500	600	700	ASTM C335
	λ (BTU.in/hr.ft².°F)	0.25	0.28	0.34	0.40	0.46	0.56	0.60	
	Tm (°C)	38	93	149	204	260	316	371	
	λ (W/mK)	0.036	0.040	0.049	0.058	0.066	0.081	0.086	
Maximum Service Temperature	Hot Surface Performance: 1400 °F - (760 °C)								ASTM C411
	Sag Resistance: ≤ 2 % at 1400 °F - (760 °C)								ASTM C411
	Maximum Use Temperature: 1200 °F - (650 °C)								ASTM C447
	Linear Shrinkage: ≤ 1 % at 1200 °F - (650 °C)								ASTM C356
Reaction to fire	Surface burning characteristics Flame spread index = 0 ; Smoke development index = 0								ASTM E84 (UL 723)
Nominal density	7.6 lb/ft³ - (122 kg/m³)								ASTM C302
Corrosion resistance **	Stress Corrosion Cracking Tendency of Austenitic Stainless Steel = Passed								ASTM C692
	Corrosion of Steel = Passed								ASTM C665
Chemical Analysis **	(Salts: Cl ⁻ , F ⁻ , Na ⁺ , SiO ₄ ⁴⁻) Results fall within acceptability limits of ASTM C795								ASTM C795 / ASTM C871
Water Absorption/ Vapor Sorption	< 1 % Weight								ASTM C1104
Compressive strength	>1100psf (53kPa) @10% compression								ASTM C165
Compliance	Complies with: Grade A Type I, II, III, IV, V								ASTM C547
	Inner & Outer Diameters for Nominal Pipe Sizes complies with:								ASTM C585
	ROXUL offers a wide range of facings, dimensions and thicknesses. Please contact ROXUL for further information.								

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