DELTA®-PF

PREFORMED MINERAL WOOL PIPE INSULATION

Thermally Efficient-Lightweight

DELTA®-PF is a nominal 8 pound density PreFormed half-cylinder pipe insulation manufactured from mineral wool bonded together with a high temperature binder. It is produced to fit precise NPS and tubing pipe sizes for commercial and industrial applications ranging from -20°F(-29°C) to 1200°F(649°C).

DELTA®-PF mineral wool incorporates an additive which makes the insulation water repellent.

Physical Properties

All values in ( ) are metric conversions.

Density ........................ Nom. 8 lb./ft³ (128 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.= 0.57 (0.082)

Service Temperature [C 411-87].up to 1200°F*(649°C*)

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.

Mineral wool is "Incombustible" [ASTM E 136]
Surface Burning Characteristics: [ASTM E 84 Test Method]

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

Forms Available

DELTA®-PF is manufactured in three-foot half-cylinders for iron pipe sizes ¼" to 36", copper tube sizes 5/8" to 121/8", and duct sizes 4" to 72" [very large diameters may be in quad-segments due to difficulty in handling]. Available in single layer thickness from 1" to 4" and double layered thickness from 4½" to 8" in ½" nominal increments per ASTM C585.

Jacketing Available

DELTA®-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] 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.

Specifications

Pipe Insulation:
ASTM C 547 and ASTM C 585
U.S. Federal Specification HH-I-558B

Jacketing: ASJ and/or FSK / FRK:
ASTM C 1136 and U.S. Federal Spec. HH-B-100B
Underwriters Laboratories UL-723

Stainless Steel Stress Corrosion Specification:
Special provisions apply concerning lot testing, Contact manufacturer...
ASTM C 795, per test methods C 871, & C 692
MIL-I-24244 B & C [ships] and NRC Reg. Guide #1.36

*Consult manufacturer for limitations under elevated temperature conditions.