

## 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./ft<sup>3</sup> (128 kg./m<sup>3</sup>)

Thermal Conductivity: °F.(°C) mean temp.= Btu in./h ft<sup>2</sup>  
°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 ½" 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.