DELTA®

METAL MESH BLANKETS

Efficient - Versatile - Reinforced

DELTA® METAL MESH Blankets are manufactured by enclosing felted mineral wool {bonded together with a limited amount of high temperature binder} between various combinations of metal facings. It is a highly efficient, semi-flexible insulation recommended for industrial applications up to 1200° F.*(649° C*). DELTA® METAL MESH Mineral Wool Blankets have a wide range of applications including use on high temperature expansion joints, coke drums, power and process equipment, and where withstanding extreme shocks and vibration are desired. Generally, attachment is by means of weld pins and clips, or strapping, and then finished with either metal, plastic lagging, or reinforced mastic.

Physical Properties All values in ( ) are metric

Density: (Tolerance –10% by package weight)…… 8 lb/ft3 (128 kg./m3)

Thermal Conductivity: °F.(°C) mean temp.= Btu in./h ft² °F (W/m K) [per ASTM C 177 with C 1045 calculations]

75° F. (24° C) mean temp. = 0.24 (0.035)
200° F. (93° C) mean temp. = 0.28 (0.041)
300° F. (149° C) mean temp. = 0.31 (0.045)
400° F. (204° C) mean temp. = 0.37 (0.054)
500° F. (260° C) mean temp. = 0.44 (0.064)
600° F. (316° C) mean temp. = 0.53 (0.077)

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

Caution: Some facings, such as galvanized hexangular wire mesh {max. temp. 392° F}, will not maintain integrity at maxi-mum service temperature.

Corrosion [Steel, Aluminum, Copper, ASTM C 665]-None

Moisture Sorption [Vapor, ASTM C 1104] Less than 1%

Does not promote growth of fungi or bacteria.

"Incombustible" [ASTM E 136 Test Method]

Surface Burning Characteristics:
[ASTM E 84 Test Method]
Flame Spread Index = 5
Smoke Developed Index = 0

Forms Available

Thickness:1 in.(25mm) through 6 inch(152mm) in ½ in.(12.7mm) increments.

Standard Width: 24 in. (61cm) Standard Length: 48 in. (122cm)

Packaged: Corrugated cartons containing approx. 96 board feet except unfaced blanket filler which is packed in shrink-film polyethylene.

Suggested Thickness: ≤ 140°F. Outer Surface Temp.

3EPLUS® v2.12 computer model calculating for insulation thickness at various process temperatures on a vertical flat surface. Input data:
Ambient air = 75° F, No wind, Emittance [oxidized aluminum] = 0.1

Temperature	Thickness	Temperature	Thickness
250°F.	1.0 in.	650°F.	4.0 in.
350°F.	1.5 in.	750°F.	5.5 in.
450°F.	2.0 in.	950°F.	8.5 in.
550°F.	3.0 in.	1150°F.	12.5 in.

Specifications

ASTM C592-97, Type I and II
U.S. Federal Specification HH-I-558B and C
Stainless Steel Stress Corrosion Specification:
Special provisions apply concerning lot testing, contact manufacture…
ASTM C 795, per test methods C 871, & C 692
Nuclear Regulatory Commission, Reg. Guide #1.36
MIL-I-24244 B and C [ships]

*Consult manufacturer for limitations under elevated temperature conditions.

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