

Specifications ET Blanket

Description

Elevated Temperature Blanket 1000° is a lightweight thermal insulation blanket (1.1 PCF, 17.6 kg/m³) made from highly resilient, inorganic glass fibers bonded by a high-temperature thermosetting resin.

Application

Elevated Temperature Blanket 1000° is for industrial heating equipment to 1000°F (538°C), such as industrial furnaces, panel systems, marine applications and irregular surfaces.

Features and Benefits

Excellent Thermal Properties

Low thermal conductivity ratings to 1000°F (538°C).

Increases system efficiency and decreases fuel usage.

Damage Resistant

Tough and resilient.

Resists damage in shipment, and during and after installation.

Specification Compliance

In U.S.:

ASTM C 795

HH-I-558C; Form B, Class 7, 8

MIL-I-22023D; Type I, Class 3; Type II, Class 3

MIL-I-24244C

NRC Reg. Guide 1.36

USCG 164.109/18/0

In Canada:

CAN/ULC S102-M88

T.C.270.F1.314

CGSB 51-GP-11M

Technical Data

Surface Burning Characteristics

Does not exceed 25 Flame Spread, 50 Smoke Developed when tested in accordance with ASTM E 84, CAN/ULC S102-M88, and UL 723.

Water Vapor Sorption (ASTM C 1104)

0.1% or less by volume.

Temperature Limit (ASTM C 411)

Up to 1000°F (538°C)

Resists Microbial Growth (ASTM C 1338)

No growth.

Will not rot or sustain vermin.

Non-Corrosive (ASTM C 665)

Will not accelerate corrosion of steel.

Complies to stress corrosion requirements of ASTM C 795, MIL-I-24244C, and NRC Reg. Guide 1.36.

Application and Specification Guidelines

Precautions

During initial heat-up to operating temperatures above 350°F (177°C), a slight odor and some smoke may be given off as a portion of the bonding material used in the insulation begins to undergo a controlled decomposition.

If natural convection is not adequate in confined areas, forced ventilation should be provided in order to protect against any harmful fumes and vapors that might be generated.

Storage

Protect material from water damage or other abuse. Protect from welding sparks and open flame. The material may be stored outside if the packaging is not damaged.

Preparation

Apply the product on clean, dry surfaces.

Caution

Fiber glass may cause temporary skin irritation. Wear long-sleeved, loose-fitting clothing, head covering, gloves, and eye protection when handling and applying material. Wash with soap and warm water after handling. Wash work clothes separately and rinse washer. A disposable mask designed for nuisance type dusts should be used where sensitivity to dust and airborne particles may cause irritation to the nose and throat.

Notes

The chemical and physical properties of ET Blanket 1000° represent typical average values determined in accordance with accepted test methods. The data is subject to normal manufacturing variations. The data is supplied as a technical service and is subject to change without notice. References to numerical flame spread ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. .

THERMAL EFFICIENCY (ASTM C 177)

Mean Temperature	Mean Temperature (SI)	k	k (SI)
100°F	38°C	.28	.040
200°F	93°C	.38	.055
300°F	149°C	.52	.075
400°F	204°C	.70	.101
500°F	260°C	.90	.130