EG-SCUI TECHNICAL SPECIFICATION

ESLIN™ ENERGY SAVING LAYERED INSULATION

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Revision: 2
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Preformed Pipe & Board Material EG-SCUI Type

General Product Information

ESLIN™ Industrial Insulation: Preformed unbreakable, reusable pipe and board insulation with superior strength, high compressive resistance, and unmatched life-cycle performance. A proprietary manufacturing process combines specially processed high-density E-glass needled mat with 'inorganic' binder materials to form a non-combustible, high-temperature insulation with superior thermal performance and excellent fire resistant properties. Two-piece pipe cover is available in pipe sizes from 1/2" (15mm) to 40" (1000mm) in diameter — sectional pieces are not required for large pipe sizes. Board materials are available both in flat form or preformed to fit the exact curvature of any vessel, tank, duct or exchanger. All ESLIN™ material is available in single thicknesses up to 4" (100mm). ESLIN™ SCUI Type is a water repellent but vapor permeable insulation.

Description & Common Applications

ESLIN™ Pipe and Board insulation is ideal for steam and process systems operating at temperatures up to 1400°F (760°C) where energy conservation, personnel protection and fire-resistance matter. It is especially recommended for use in high temperature industrial environments. Diverse applications include piping, ducts, vessels, tanks and exchangers in power plants, refineries geothermal, concentrating solar power (CSP), petro-chemical, bio-fuels and exhaust systems. ESLIN™ SCUI material is highly water resistant making it ideal for applications where moisture is or could be present.

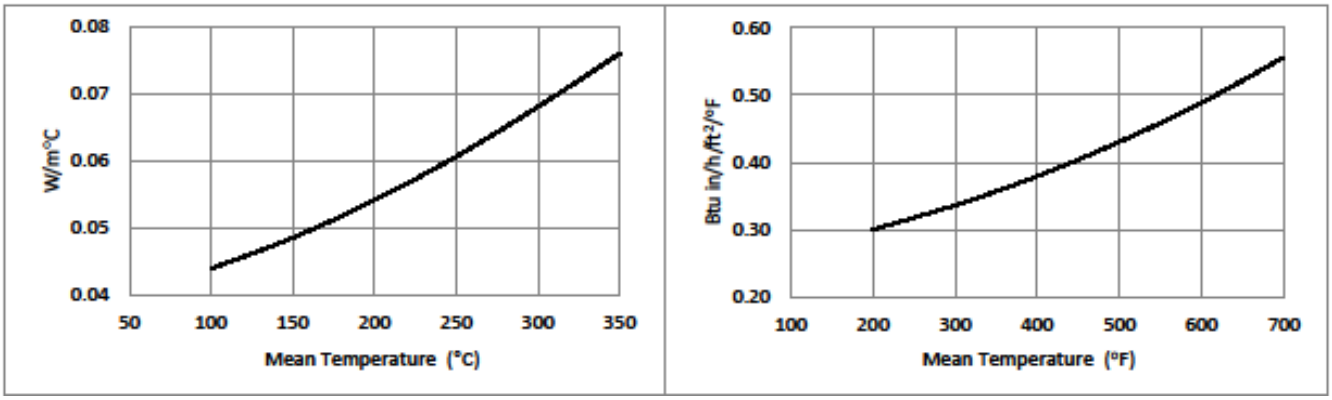
Specification Compliance

ASTM C547 (Type I, II, IV, V)
ASTM C795 (Per test methods C871 & C692) *
ASTM C585 (ID/OD Dimensions)
ASTM E136 (Noncombustible)
ASTM E162 (Flammability)
ASTM E662 (Smoke Generation)
CAN/ULC S102 (Surface Burning)
CAN/ULC S114 (Noncombustible)
MIL-I-24244 (all versions including B & C)
NRC Reg. Guide 1.36
ASTM C547-A1 NAVSEA Compressive Resilience

Physical Properties

ASTM C 302 Density (Dry) Average
12.5 lb/ft³ (200 kg/m³) Pipe Cover
11.2 lb/ft³ (180 kg/m³) Board Material
ASTM C 165 Compressive Resistance
28.5 psi (196 kPa) @ 5% Compression
ASTM C 356 Dimensional Stability (Linear Shrinkage)
< 0.27% @ 1200°F (650°C)
ASTM C 411, C 447 Maximum Service Temperature
1400°F (760°C)
ASTM E 84 Surface Burning Characteristics
Flame Spread / Smoke Developed = 0/0
Water Resistance: Surface treated for water resistance to readily shed any water that may gain entry into the insulation system.

Thermal Conductivity (k)



Please visit our website at: WWW.ESLIN.US / Technical / Calculate Insulation Thickness for exact thermal conductivity values and instructions for entering ESLIN™ thermal values into the NAIMA 3E-Plus software, the industry standard for calculating insulation thicknesses, heat losses & surface temperatures.

*When ordering material to comply with any ASTM, government, or other specification, a statement of that fact must appear on the purchase order. These specifications require specific lot testing and prohibit the certification of the lot after shipment has been made. There will be additional charges associated with compliance testing.

VISIONARY INDUSTRIAL INSULATION

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