



ESLIN™ TECHNICAL SPECIFICATION

ENERGY SAVING LAYERED INSULATION

Document:
Revision:
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TS: EG-SCUI
6
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Preformed Pipe & Board Material EG-SCUI Type

General Product Information

ESLIN™ Industrial Insulation: Sustainable, preformed, unbreakable, reusable, pipe and board insulation with superior strength, great sound attenuation qualities, 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 an easy to install non-combustible, high-temperature insulation with superior thermal performance, is non-contributory to CUI and has excellent fire resistant properties. Two-piece pipe cover is available in pipe sizes from 1/2” (15mm) to 44” (1117mm) in diameter — sectional pieces are not required for large pipe sizes. Board materials are available both in flat form or preformed/rounded to fit the exact curvature of any vessel, tank, duct or exchanger. All ESLIN™ material is available in single thicknesses up to 4” (100 mm). ESLIN™ NCUI Type is our basic and most cost-competitive alternative. “Safe-To-Use” and Made in the USA.

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

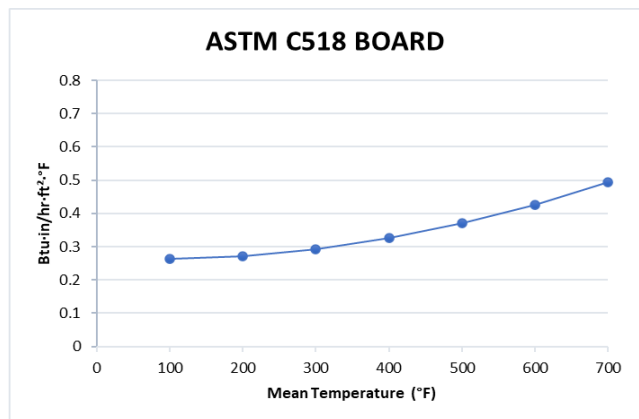
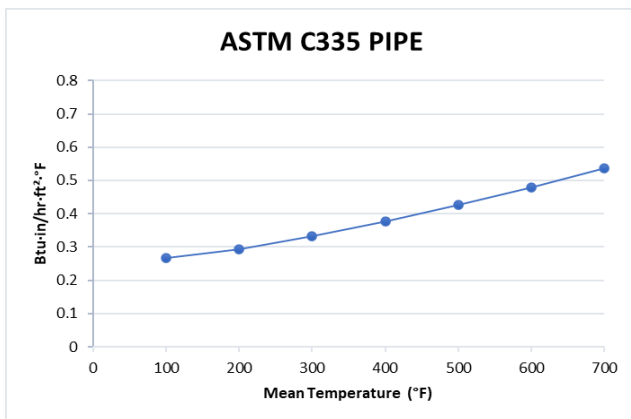
- ASTM C1937-24 (Layered, Glass Fiber felt Pipe and Board Insulation)
- ASTM C547 (Type I, II, IV, V)
- ASTM C795 (Per test methods C871 & C692) *
- ASTM C692/871 (28 Days Corrosion Tests St. St.)
- ASTM C1617 (Noncorrosive to Carbon Steel)
- ASTM C585 (ID/OD Dimensions)
- ASTM C1104/1104M (Water Vapor Sorption)
- ASTM E136 (Noncombustible)
- ASTM E162 (Flammability)
- ASTM E662 (Smoke Generation)
- ASTM C547-A1 NAVSEA Compressive Resilience
- CAN/ULC S102 (Surface Burning)
- CAN/ULC S114 (Noncombustible)
- IMO FTP Code, Annex 1, Part I (Non-combustibility)
- MIL-I-24244 (all versions including B & C)
- NRC Reg. Guide 1.36

Physical Properties

- ASTM C 302/ C 303 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
 - 1294 lb/ft² @ 10% Compression
- ASTM C 356 Dimensional Stability (Linear Shrinkage)
 - < 2% @ 1200°F (650°C)
- ASTM C 411, C 447 Maximum Service Temperature & SAG Resistance
 - 1400°F (760°C)
- ASTM E 84 Surface Burning Characteristics
 - Flame Spread / Smoke Developed = 0/0
- ASTM C 335/ C 518 See Below

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.



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