

## HITLIN Preformed Pipe & Board Material — HG-RCUI Type

### General Product Information

HITLIN™ Industrial Insulation is a preformed high-density, unbreakable, reusable pipe and board insulation with superior strength and durability. A patented manufacturing process combines specially processed E-glass needled-mat and inorganic binders 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 44" (1120mm) 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 HITLIN material is available in single thicknesses up to 6" (150mm). HITLIN™ RCUI Type is a water repellent but vapor permeable insulation.

### Description & Common Applications

HITLIN™ 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. HITLIN™ RCUI Type is 99.7% water resistant making it ideal for applications where moisture is or could be present.

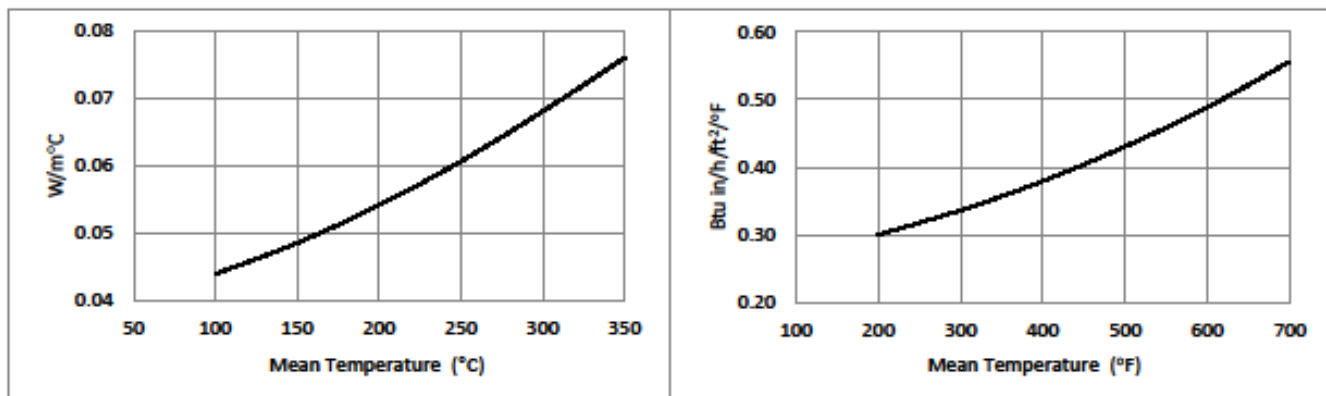
### Specification Compliance

ASTM C 547 (Type I, II, IV, V)  
ASTM C 795 (Per test methods C871 & C692) \*  
ASTM C 585 (ID/OD Dimensions)  
ASTM E 136 (Noncombustible)  
ASTM E 162 (Flammability)  
ASTM E 662 (Smoke Generation)  
CAN/ULC S102 (Surface Burning)  
CAN/ULC S114 (Noncombustible)  
MIL-I-24244 (all versions including B & C)  
NRC Reg. Guide 1.36

### Physical Properties

ASTM C 302 Density (Dry) Average  
12.5 lb/ft<sup>3</sup> (200 kg/m<sup>3</sup>) Pipe Cover  
11.2 lb/ft<sup>3</sup> (180 kg/m<sup>3</sup>) 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  
ASTM C 1104 Moisture Sorption  
< 0.04 % by volume

### Thermal Conductivity (k)



HITLIN™ Pipe & Board Insulation as tested in accordance with ASTM C177, ASTM C518 and ASTM C335

\*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.