

HITLIN™ Material Designations (Water-Resistance)

HITLIN™ Industrial Insulation is offered in a number of different versions related to its water-resistance qualities. These available alternatives allow our customers to tailor the material to their specific needs at the lowest possible material cost. All versions offer the same thermal conductivity properties and the same performance as any other HITLIN™ insulation product.

HITLIN™ Material Designations

HG

“HG” is the designation for “HITLIN™ Glass”. All HITLIN™ industrial insulation products are formed using this basic material. This HG material is not specially treated for water-resistance. It may also be designated as HG-NCUI. This is the most economically priced HITLIN™ insulation material.

HG-SCUI

The “SCUI” designation means “Surface Coated for Corrosion Under Insulation (CUI)”. When the “surface coating” process is used, each layer of the mandrel-wound product is surface coated to a depth of 2-5 mm (0.08 to 0.2 inches) deep. Also, water treatment material is mixed into the inorganic binder material that is used between each layer. Our HG-SCUI material is highly water-resistant and may be used in most applications. Pricing for HG-SCUI is typically about 10% higher than our basic HG insulation.

HG-RCUI

The “RCUI” designation means “Resistance to Corrosion Under Insulation (CUI)”. The felt material and binder material used in this version are fully treated for water-resistance. This process yields our signature water-resistant product that is 99.7% water-resistant (See Note 2). HG-RCUI material may be used in any application but is especially suited for locations with high rainfall or where water entry into insulation systems is otherwise common. Historical equipment inspection has shown that carbon steel operating in the temperature range from -4°C (25°F) to 150°C (300°F) is at the greatest risk from CUI. RCUI is highly recommended for these applications. Pricing for HG-RCUI is typically about 20% more than our basic HG insulation product.

Notes:

1. All HITLIN™ insulation products are designed to minimize the possibility of corrosion under insulation (CUI). All HITLIN™ products are fully compliant with ASTM C795 which includes Corrosion Testing per ASTM C692 and Chemical Testing in accordance with ASTM C871. Conforms with NRC RG 1.36.
2. Water resistance as determined per KCIM Water Repellency Test KS L 9101. This testing was originally developed for calcium-silicate material. Test involves rain-like drip test on product sample fixed at a 45° angle to the “rain” source. “Rain” source includes multiple nozzles and is located 15cm (6 inches) above test sample. Test continues for time period and with water quantities as designated in KS L 9101. HITLIN RCUI has also been tested to ASTM C1104 (Water Vapor Sorption) with results showing less than 0.04% sorption by volume.