

Shannon Hydrophobic Blanket Insulation Features & Benefits

Shannon Global Energy Solutions' hydrophobic thermal and acoustic insulation blankets reduce energy loss and/or mitigate harmful noise levels from equipment like valves, pumps, heat exchangers, vessels and compressors with geometrically complex surfaces at refineries and processing plants.

Shannon's designs – which contain Lewco Super Mat®, a PTFE-impregnated Type-E needled and felted fiberglass blanket insulation – do not require workers to wear a mask while manufacturing or installing the material. Super Mat also helps mitigate CUI due to its water-repelling properties.

The Shannon Hydrophobic Thermal Blanket designs LT450TT-HES, LT450TT-HS and LT550LFP-HS and Shannon Hydrophobic Acoustic Blanket designs LT450A-TT-HES and LT450A-TT-HS, have an insulating core made of hydrophobic Super Mat that consists solely of PTFE and E-glass fiber, so there is no amorphous silica particulate or additive that can escape as dust, posing a health risk. Shannon hydrophobic acoustic blankets reduce harmful noise levels by up to 15 dBA. Depending on thickness, Shannon calculates the surface temperature of its thermal blanket when wrapped around a component operating at 450 F (232 C) will range from 108 F (42 C) to 135 F (57 C).



Application: Natural Gas Pipeline

Acoustic Design: LT450A-TT-HES-1 ½" Thickness
Fasteners: "D" Ring Straps & Velcro Flaps
Surface Mass: 2.4lb/SF
Noise Reduction: 10 DbA



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The PTFE coating of every glass fiber gives Super Mat its hydrophobicity, or ability to repel water. Hydrophobic insulation reduces the risk of CUI by significantly reducing or eliminating the steel substrate's duration of wetness caused by water-soaked insulation. When water absorbent insulation becomes wet, it not only lacks the ability to conserve thermal energy, but also holds that water against the equipment, which increases the risk of CUI. Super Mat's hydrophobic performance is validated by ASTM test methods C1511 and C1763.

"E-glass insulation core material is the safest, most durable," said Frank Kovacs, president and CEO of Shannon. "It's one reason our blankets have a reputation for high quality."



Application: Control Valve & Piping

Acoustic Design: LT450A-TT-HES-1 1/2" Thickness
 Fasteners: "D" Ring Straps & Velcro Flaps
 Surface Mass: 2.4lb/SF
 Noise Reduction: 10 DbA

Application: Service Connect Piping

Acoustic Design: LT450A-TT-HES-1 1/2" Thickness
 Fasteners: "D" Ring Straps & Velcro Flaps
 Surface Mass: 2.4lb/SF
 Noise Reduction: 10 DbA



Application: Steam Service Manhole Expansion Joint & Pipe

Thermal Design: LT550LFP-HS-1 1/2" Thickness
 Fasteners: Non-Metallic Side Release Buckle & Strap

Application: Steam Service Manhole Expansion Joint & Pipe

Thermal Design: LT550LFP-HS-1 1/2" Thickness
 Fasteners: Stainless Steel Wiretwists



THERMAL



ACOUSTIC



SAFETY

*Engineering Reusable Solutions
 for a Sustainable Planet*

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