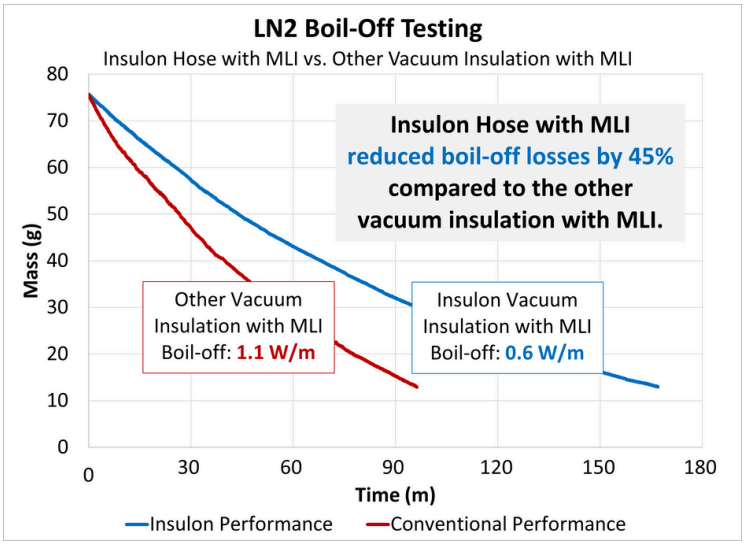
Minimizing energy loss/gain in fluid transfer applications with Insulon Vacuum Jacketed Hose, MLI

Insulon vacuum jacketed hoses are engineered for cryogenic and high-temperature applications from -270 to 815°C (-454 to 1500°F). Ultra-high performance models of Insulon Hose include proprietary **multi-layer insulation (MLI)**. MLI is a series of thin, highly reflective layers of materials that minimize radiation heat transfer.

Features & Benefits

- Minimizes boil off losses
- Reduces condensation
- Improves thermal energy efficiency
- Maintains safer surface temperatures
- Compatible with a range of end fittings including compression unions, adapters, flared swivel nuts, flanges, and more
- 316L stainless steel construction
- Wide operating pressure range
- ASTM G93 oxygen cleanliness up to Level A available upon request



Setup: Two 1/2" ID x 6' L vacuum jacketed hoses are bent 180° into a "U" configuration. Both ends of each hose assembly are fixtured onto a load-cell. The hoses are filled with LN2. A DAQ system pulls data from both load cells to plot the mass loss of LN2 with respect to time.

Range of sizes

- Inner diameters include **1/4 in, 3/8 in, 1/2 in, 3/4 in, 1 in ID**
- Lengths up to **66 feet (20 meters)**

Support

Engineering support available.
Contact us to discuss your project.

Learn more at
conceptgroupllc.com