

Cryogenic composite insulation

Speed, savings and vacuum integrity you can't ignore.



**Cut your waste
by 90%**



**Cut your install
time by 80%**



**Zero Organic
content**



**BAM
approved**

This high quality multi-layer composite option is manufactured by rolling the aluminium foil together with the inorganic paper in combined layers from one to five layers.

This option is normally used as 5 times paper and 5 times foil option by most Users globally.

Specification

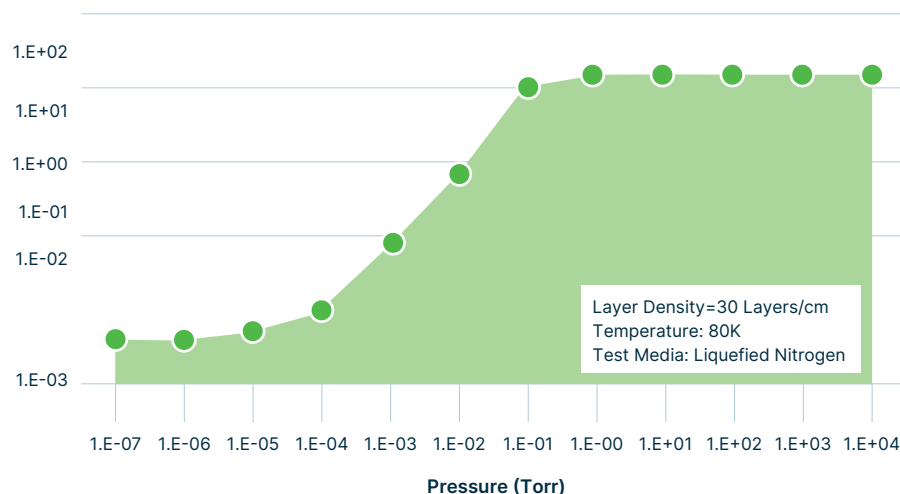
Items	Insulation Material	Aluminium Foil
Thickness	0.06±0.01mm	0.0065mm
Weight	13.5±1 g/m ²	17±1 g/m ²
Tensile Strength	≤0.03 KN/m	≤0.04 KN/m
Moisture Content	≤0.5%	–
Organic Content	≤0.5%	–
Ensemble Thermal Conductivity	<1.5×10 ⁻⁴ w/m•k	
Cryogenic Out-gassing (Static State 1h)	<1.0×10 ⁻⁸ Pa•m3/s•g	
Temperature Range	-269°C – 500°C	

Combined paper performance

The graph on the right shows the conductivity performance that is achieved by the high level of quality control established throughout the business.

Conductivity performance

Thermal Conductivity (mW/m.K)



Key benefits

5x quicker install time:

- Ex-stock in Europe and beyond minimising your bulk purchases.
- The multi-layer, combined option strengthens the insulation materials.
- Drastically reduces the install time and increases your productivity.
- Reduces paper and foil waste.
- Suitable for all your equipment including oxygen vessels.
- Enhances installation efficiency and improves your bottom line.

*A = Aluminium foil & *B = insulation paper

Applications

Cryogenic Vessels, Microbulk, Dewars, Cryogenic Railcars, ISO Tanks, Vacuum Jacketed Pipe, etc.

Technical information

Width Range:

60mm to 1800mm to your standard (minimum quantities may be required)

Standard Widths:

90mm, 910mm, 1310mm, 1710mm, 1800mm

Composite Layers:

(A*+B*) x 1, (A+B) x 2, (A+B) x 3, (A+B) x 5

Temperature Range:

-452°F to 932°F (-269°C to 500°C)

Technical reports

The following technical reports are available to give additional detail to support your selection:

- **Test report 01S03:** Effective Thermal Conductivity Coefficient Test
- **Test report 04S11:** Material Outgassing Test at High Temperature (120°C)
- **Test report 03S10:** Material Outgassing Test at Normal Atmospheric Temperature
- Installation Guide

To place your order or to find out more, contact us on:

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