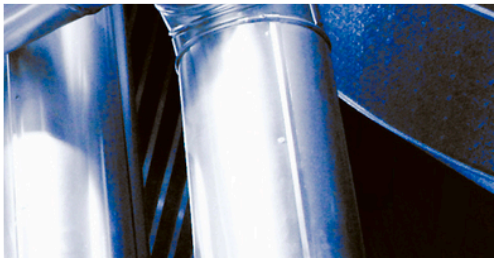
INSULATION JUST GOT BETTER

ArmaGel HTL

Flexible aerogel blanket for high-temperature applications

// Excellent protection against corrosion under insulation (CUI)
// Hydrophobic and breathable
// Non-combustible
// More choice: 5, 10 and 20 mm thicknesses

www.armacell.com/energy



armacell®
ArmaGel®

TECHNICAL DATA - ARMAGEL HTL

Brief description	ArmaGel HTL is a flexible aerogel insulation blanket suitable for high-temperature insulation applications up to 650°C (1200°F).
Material type	Aerogel blanket.
Product colour range	Light grey
Special features	ArmaGel HTL is a highly flexible aerogel insulation blanket. It is hydrophobic and breathable providing the best-in-class corrosion under insulation (CUI) protection.
Product range	Sheets in rolls, 5, 10 and 20 mm (0.2, 0.4 and 0.8 in) thickness and width of 1.5 m (59 in). For further details, please refer to the product range tables at the end of this document.
Applications	Thermal insulation/protection of pipes, vessels, equipment, fittings and etc. in industrial and process facilities.
Installation	For industrial applications it is recommended to consult the relevant Armacell application manual(s). For further information please contact our Technical Services.

Property	Value / Assessment					Standard / Test method
Temperature range						
Service temperature[1]	Max. °C		Max. °F			ASTM C447, ASTM C411
	650		1,200			
Thermal conductivity						
Declared thermal conductivity	θm	24°C (75°F)	100°C (212°F)	200°C (392°F)	300°C (572°F)	ASTM C177
	λd ⩽ [W/(m·K)]	0.029	0.039	0.049	0.061	
	λd ⩽ [Btu-in/(h-ft²-°F)]	0.20	0.27	0.34	0.42	
Fire Performance and Approvals						
Reaction to fire	Non-combustible					ISO 1182
Surface burning characteristics[2]	Flame spread = 0 Smoke developed index = 0					ASTM E84
Fire performance						
Toxicity	Passed					KS F 2271
Resistance to water						
Hydrophobic	Yes					
Water absorption	< 8%					ASTM C1763
Corrosion mitigation						
Stress corrosion cracking	Passed					ASTM C692
Physical attributes						
Density	120 to 180 kg/m³ (7.5 to 11.2 lb/ft³)					KS L 9102
Weather and UV resistance						
Weather resistance	In all industrial applications the outer layer of the material must be protected with an adequate covering like metal jacketing or preformed UV-cured GRP (Glass-Reinforced Plastic) cladding. Please contact Technical Services for guidance on the temperature limitations and specific construction considerations which need to be made for each jacketing system.					
Health and environment						
Fungal growth	Rating 0					ASTM G21
Other technical features						
Shelf life[3]	Max. 3 years					
Storage	Material shall be stored indoors, in clean and dry conditions, away from direct sunlight.					

[1] For use in temperatures beyond the published value, please contact Technical Services.

[2] Based on single test results. Can be used for information / reference only.

[3] Shelf life (maximum storage time) is limited to ensure that only currently manufactured products are installed on projects. This limitation is restricted solely to storage of the product and does not affect the lifetime of product after it has been installed.

ArmaGel | ArmaGel HTL | Brochure | 012023 | en-CA

ABOUT ARMACELL

As the inventors of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal, acoustic and mechanical solutions that create sustainable value for its customers. Armacell's products significantly contribute to global energy efficiency, making a difference around the world every day. With more than 3200 employees and 27 production plants in 19 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for high-tech and lightweight applications and next generation aerogel blanket technology.

armacell®
ArmaGel®

For more information, please visit:
www.armacell.com