

## INSULATION JUST GOT BETTER

# ArmaGel HTL

Flexible aerogel blanket for high-temperature applications

- // ASTM C1728 Compliant
- // Non-combustible in accordance with ISO EN 1182 (A1)
- // Excellent protection against corrosion under insulation
  (CUI)
- // Hydrophobic and breathable
- // More choice: 5, 10 and 20 mm thicknesses









#### 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).  ArmaGel HTL is compliant with ASTM C1728, Type V, Grade 1A.								
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	Thermal insulation/protection of pipes, vessels, equipment, fittings and etc. in industrial and process facilities.							
Installation		or industrial applications it is recommended to consult the relevant Armacell application manual(s). For further information please ontact our Technical Services.							
Property	Value / Assessme	nt				Standard / Test method			
Temperature range	-					_			
Service temperature <sup>1</sup>	Max. °C		Ma	«. °F		ASTM C447, ASTM C411			
	650		1,2	00		-			
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	-			
	k ≤ [Btu-in/(h-ft²-°F	0.20	0.27	0.34	0.42	-			
Fire Performance and Approval	s								
Reaction to fire	A1 Non-combustible					ISO 1182, EN 13501-1			
Surface burning characteristics		Flame spread index < 5 Smoke developed index < 10							
Fire performance									
Toxicity	Passed					KS F 2271			
Resistance to water						-			
Hydrophobic	Yes								
Water absorption	≤ 8% by weight	ASTM C1763							
Corrosion mitigation									
Stress corrosion cracking	Passed					ASTM C692			
Physical attributes									
Nominal density	150 kg/m³ (9.5 lb/ft³)					ASTM C303, KS L 9102			
Weather and UV resistance									
Weather resistance	In all industrial appli metal jacketing or pi Services for guidanc made for each jacke								
Health and environment									
Fungal growth	No growth / Rating 0					ASTM C1338, ASTM G21			
Health aspects	Neutral								
Other technical features									
Shelf life <sup>2</sup>	Max. 3 years								

Property	Value / Assessment	Standard / Test method
Storage	Material shall be stored indoors, in clean and dry conditions, away from direct sunlight.	

<sup>&</sup>lt;sup>1</sup>For use in temperatures beyond the published value, please contact Technical Services.

<sup>&</sup>lt;sup>2</sup>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.

#### Roll - jumbo

Item	Thickness [mm]	Thickness [Inch]	Width (m)	Width [inch]	Length [m]	Length [ft]	Content [metric]	Content [imperial]	
AGL-05-00/150J	5	0.2	1.5	59	80	262.5	120 m²	1291.7 ft <sup>2</sup>	
AGL-10-00/150J	10	0.4	1.5	59	48	157.5	72 m²	775 ft²	
AGL-20-00/150J	20	0.8	1.5	59	24	78.7	36 m <sup>2</sup>	387.5 ft²	
Other information	1								
		5 mm (0.2 in) nominal thickness: ± 1 mm 10 mm (0.4 in) nominal thickness: ± 2.5 mm 20 mm (0.8 in) nominal thickness: ± 4 mm							
Length tolerance ± 5 %									
Width tolerance ± 3 %		+ 2 %							

#### Roll - standard

Item	Thickness [mm]	Thickness [Inch]	Width (m)	Width [inch]	Length [m]	Length [ft]	Content [metric]	Content [imperial]	
AGL-05-00/150S	5	0.2	1.5	59	16	52.5	24 m <sup>2</sup>	258.3 ft²	
AGL-10-00/150S	10	0.4	1.5	59	8	26.2	12 m <sup>2</sup>	129.2 ft²	
AGL-20-00/150S	20	0.8	1.5	59	4	13.1	6 m²	64.6 ft <sup>2</sup>	
Other information	1								
Thickness tolerance		5 mm (0.2 in) nominal thickness: ± 1 mm 10 mm (0.4 in) nominal thickness: ± 2.5 mm 20 mm (0.8 in) nominal thickness: ± 4 mm							
Length tolerance ± 5 %									
Width tolerance ± 3 %									

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### **ABOUT ARMACELL**

As the inventor of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal 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 3,300 employees and 25 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 acoustic and lightweight applications, recycled PET products, next-generation aerogel technology and passive fire protection systems.

