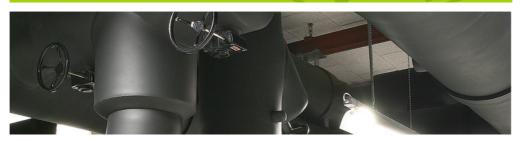


ENGINEERED TO PREVENT CONDENSATION

ArmaFlex Class

Built-in water vapour barrier to reduce risk of corrosion under insulation.

- // Class 1 fire classification according to BS476 Part 7 $\,$
- // Minimise long-term heat gain and reduce energy cost
 // Closed-cell structure increases resistance to water
 vanour









ArmaFlex Class 1

Built-in water vapour barrier to reduce risk of corrosion under insulation (CUI). Conserves energy and reduces heat loss. Class 1 fire classification according to BS476 Part 7. Certified by leading international fire safety agencies. Fibre-free.

Easy to install



Prevent condensation

Reliable performance



// Closed-cell structure

Minimises moisture permeation to ensure long-term protection against corrosion under insulation. Removes the need for an additional water vapour barrier.

// Good fire performance

FM Approved for entire range of insulation thickness. Certified to conform to safety, reliability and performance standards of various local fire safety bodies.

// Energy efficient

Low thermal conductivity minimises energy losses to give long term energy savings.

// Environmentally safe

Zero Ozone Depletion Potential and Global Warming Potential; rated "Excellent" by Singapore Green Building Council.

// Safer indoor air quality

Free of fibre and formaldehyde, and GREENGUARD® Gold certified for low emissions of volatile organic compounds.

// Easy-to-install

Highly flexible elastomeric foam that can be installed quickly on irregular shapes and installations in tight spaces.



TECHNICAL DATA - ARMAFLEX CLASS 1

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Temperature range				
Property	Value / Assessment	Standard / Test method		
Installation	Please refer to the ArmaFlex application manual for advice. ArmaFlex can be used together with ArmaFlex 520 adhesive and ArmaFix pipe hangers for a complete insulation system.			
Applications	Thermal insulation/protection of pipes, air ducts and vessels (incl. elbows, fittings, flanges etc.) in air conditioning, refrigeration and process equipment to prevent condensation and to save energy. Structure-borne noise reduction in service-water and waste-water installations.			
Special features	Engineered wall: increasing insulation wall thickness for tubes ensures that the surface temperature is maintained as the pipe diameter is increased.			
Product colour range	Black			
Material type	Flexible elastomeric foam based on synthetic rubber (NBR).			
Brief description	ArmaFlex Class 1 is a flexible insulation material that reliably protects against water vapour ingress due to additional water vapour barrier is required.) its closed-cell structure. No		

Service temperature	Min. °C		Max. °C		
	-50 Remarks		105 +85 °C if sheet is glued to the object with its whole surface.		
Thermal conductivity					
Declared thermal conductivity	θm	-20 °C	0 °C	25°C	GB/T 10295, GB/T 10296, — ASTM C518, EN ISO 8497
	$\lambda d \leq [W/(m \cdot K)]$	0.032	0.034	0.036	- ASTM C518, EN ISU 8497
Fire Performance and Approval	s				
Surface spread of flame	Class 1				BS 476 Part 7
FM approved	Yes				FM 4924
Flammability					
Flammability of plastic materials	V-0 rating				UL 94
Fire performance					
Practical fire behaviour	Does not generate flaming droplets.				
Others	Product conforms to requirements for building products under the Fire Safety and Shelter Department of Singapore.				
Resistance to water vapour					
Water vapour diffusion resistance factor	µ ≥ 10,000				GB/T 17146, EN 12086, EN 13469
Water vapour permeability	<pre> < 1.96 x 10⁻¹¹ g/(m·s·Pa)</pre>				GB/T 17146, EN 12086, EN 13469
Resistance to water					
Water absorption by vacuum	≤ 0.5% by volume				GB/T 17794
Mechanical properties					
Resilience after compression relief	≥ 70%				GB/T 6669
Weather and UV resistance					
UV resistance		maFinish Paint or Arma vithin three days of insta		required. For outside use, ArmaFlex	

Property	Value / Assessment		
Health and environment			
Health aspects	Free of fibre and formaldehyde. Low Volatile Organic Compounds (VOC), low total aldehyde. GREENGUARD Gold for even lower VOC and total chemical emissions.		
Environmental aspects	Zero ODP and GWP.		
Environmental Product Declaration (EPD)	 Type III EPD: Declaration number 4789125188.101.1, UL Environment.		
Green building assessment	Singapore Green Building Product Certified: "Excellent" rating.		
Other technical features			
Chemical resistance	Please consult product test list.		
Shelf life			
Storage	Material shall be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0°C to 35 °C).		

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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.



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