

## ENGINEERED TO PREVENT CONDENSATION

# ArmaFlex Class 1

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

Black	foam based on syntheti	c rubber (NBR).				
Engineered wall: incr						
		Black				
	Engineered wall: increasing insulation wall thickness for tubes ensures that the surface temperature is maint is increased.					
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.						
			an be used together with ArmaFlex 5	20 adhesive and ArmaFix		
Value / Assessment				Standard / Test method		
Min. °C Max. °C						
-50		105		_		
Remarks		+85 °C if sheet is surface.	glued to the object with its whole			
θm	-20 °C	0 °C	25°C	GB/T 10295, GB/T 10296, — ASTM C518, EN ISO 8497		
λd ≤ [W/(m·K)]	0.032	0.034	0.036			
Class 1				BS 476 Part 7		
Yes			FM 4924			
V-0 rating				UL 94		
Does not generate flaming droplets.						
Product conforms to requirements for building products under the Fire Safety and Shelter Department of Singapore.						
µ ≥ 10,000			GB/T 17146, EN 12086, EN 13469			
				GB/T 17146, EN 12086, EN 13469		
0.5% by volume				GB/T 17794		
≥ 70%				GB/T 6669		
			equired. For outside use, ArmaFlex			
	Please refer to the Ar pipe hangers for a co <b>'alue / Assessment</b> Min. °C -50 Remarks $\Theta$ m $Ad \leq [W/(m-K)]$ class 1 es -0 rating Poes not generate flan Product conforms to re- ingapore. > 10,000 1.96 x 10 <sup>-11</sup> g/(m-s-Pa 0.5% by volume 70%	Please refer to the ArmaFlex application ma pipe hangers for a complete insulation syste <b>'alue / Assessment</b> Min. °C -50 Remarks Øm20 °C 0.032 Øm20 °C 0.032 es -0 rating Poes not generate flaming droplets. Product conforms to requirements for buildin ingapore. > 10,000 1.96 x 10 <sup>-11</sup> g/(m·s·Pa) 0.5% by volume 70%	Please refer to the ArmaFlex application manual for advice. ArmaFlex capple hangers for a complete insulation system. <b>'alue / Assessment</b> Max. °C         "50       105         Figure / Assessment       105         Min. °C       105         -50       105         Remarks       +85 °C if sheet is surface.         @m       -20 °C       0 °C         Ad < [W/[m-K]]	Please refer to the ArmaFlex application manual for advice. ArmaFlex can be used together with ArmaFlex 5 pipe hangers for a complete insulation system.          Please refer to the ArmaFlex application manual for advice. ArmaFlex can be used together with ArmaFlex 5 pipe hangers for a complete insulation system.         Please refer to the ArmaFlex application manual for advice. ArmaFlex can be used together with ArmaFlex 5 pipe hangers for a complete insulation system.         Min. °C       Max. °C         50       105         Remarks       +85 °C if sheet is glued to the object with its whole surface.         Bm       -20 °C       0 °C       25°C         On32       0.034       0.036         Italies 1		

Property	Value / Assessment	Standard / Test method
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.	UL 2818
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).	
	(0°C to 35 °C).	

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TDS | 062024 | en-VN

### 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.

