

## ENGINEERED TO PREVENT CONDENSATION

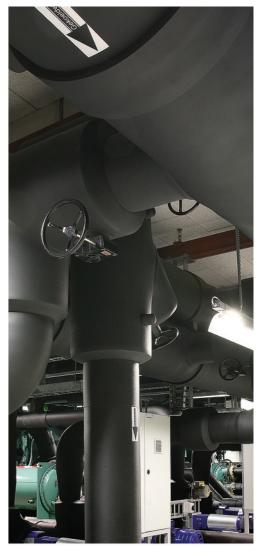
### ArmaFlex Class

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
  vapour











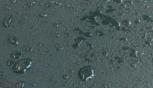
# ArmaFlex Class 1

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**

Brief description	ArmaFlex Class 1 is a flexible insulation material that reliably protects against water vapour ingress due to its closed-cell structure. No additional water vapour barrier is required.					
Material type	Flexible elastomeric foam based on synthetic rubber (NBR).					
Product colour range	Black					
Special features	Engineered wall: increasing insulation wall thickness for tubes ensures that the surface temperature is maintained as the pipe diam is increased.					
Applications		oning, refrigeration and water and waste-water				
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.					
Property	Value / Assessmen	Standard / Test method				
Temperature range						
Service temperature	Min. °C		Max. °C			
	-50		105	105		
	Remarks		+85 °C if sheet is surface.	+85 °C if sheet is glued to the object with its whole surface.		
Thermal conductivity						
Declared thermal conductivity	θт	-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		
Fire Performance and Approval	ls					
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 fla					
Others	Product conforms to singapore.					
Resistance to water vapour						
Water vapour diffusion resistance factor	µ ≥ 10,000			GB/T 17146, EN 12086, EN 13469		
Water vapour permeability	≤ 1.96 x 10 <sup>-11</sup> g/(m·s·Pa)				GB/T 17146, EN 12086, EN 13469	
Resistance to water						
Water absorption by vacuum	≤ 0.5% by volume				GB/T 17794	
Mechanical properties	- <u>-</u>					
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	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	Self-adhesive sheets, tubes and tapes: 1 year	
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.

