

## BETTER FIRE AND SMOKE PERFORMANCE

# AP/ArmaFlex<sup>®</sup>

Proven, fibre-free, flexible elastomeric insulation with reliable protection against condensation and energy loss.

- // 25/50 rated as per ASTM E 84
- // Superior thermal performance at  $\lambda_{24^{\circ}\text{C}} \leq 0.036 \text{ W}/(\text{m}\cdot\text{K})$
- // Fiber-free, formaldehyde-free, low VOC and non-particulating formulation protects indoor air quality
- // Infused with Microban<sup>®</sup> offers unique resistance to fungi and antibacterial properties
- // Resistance to surface ozone cracking as per ASTM D 1149-18
- // A proven track record of reliable excellence

[www.armacell.in](http://www.armacell.in)



 **armacell**  
ArmaFlex<sup>®</sup>

**BETTER FIRE AND SMOKE  
PERFORMANCE**

# AP/ArmaFlex

Highly flexible, fibre-free, non-particulate, formaldehyde-free, PDBE-free flame retardants and low VOC closed cell nitrile rubber insulation material. Superior thermal performance at  $0.036 \text{ W / m K @ } 24 \text{ }^\circ\text{C}$  and good water vapor permeability @  $0.05 \text{ Perm Inch}$ . Made with EPA registered Microban antimicrobial product protection, with Zero ODP and GWP and good ozone resistance. Ideal for hot and cold-water services, chilled water lines, heating systems, air conditioning ductwork, refrigerated pipework process and industrial pipework and equipment.

Energy Efficient



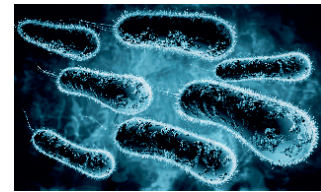
Easy To Install



Better Fire Protection



Antimicrobial Protection



## YOUR BENEFITS

**// Excellent fire performance**

Flame sprade index and smoke development index compliant to ASTM E84 - 25/50 rated.

**// Closed-cell structure**

Minimises moisture penetration to ensure long-term protection against corrosion under insulation.

**// Condensation control**

High resistance to water vapour guarantees surface temperature remains above dew point, removing the need for an additional water vapour barrier.

**// MICROBAN protection**

When microbes come into contact with the insulation surface, MICROBAN penetrates the cell wall of the microorganism, disabling its ability to function, grow and reproduce.

**// Environmentally safe**

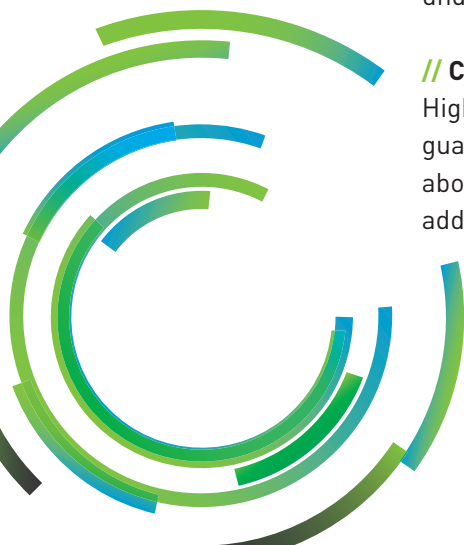
Zero ozone depletion potential and global warming potential with ozone resistance

**// Easy-to-install**

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

**// Energy efficient**

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



## TECHNICAL DATA – AP/ARMAFLEX

Brief description	Black flexible closed-cell elastomeric thermal insulation in sheet (rolls) and tube form.
Material type	Elastomeric foam based on nitrile butadiene rubber (NBR)
Colour	Black.
Product range	Product is available in thickness ranges of 6mm, 9mm, 13mm, 16mm, 19mm, and 25mm in sheets and 9mm, 13mm, 16mm, 19mm, and 25mm in tubes. Available with pre-covered self-adhesive backing, Aluminium foil and Arma-Chek GC (Glass Cloth) in sheet/roll and tube form.
Applications	Thermal insulation/protection of pipes, air ducts and vessels (incl. elbows, fittings, flanges etc.) in hot and cold water services, chilled water lines, heating systems, air conditioning ductwork and refrigerated pipework, installed in commercial, industrial, residential and public buildings to control condensation, protect against frost and reduce energy loss.
Assembly	Please refer to the ArmaFlex installation manual for advice. ArmaFlex can be used together with ArmaFlex PipeSeal, ArmaFlex DuctSeal, ArmaFlex 520 adhesive and ArmaFix for a complete insulation system.

Property	Value/Assessment				Standard/Test method
<b>Temperature range</b>					
Service temperature	Max. service temperature	+105 °C	+85 °C if sheet or tape is glued to the object with its whole surface.		Tested according to ASTM C411
	Min. service temperature	-50 °C			
<b>Thermal conductivity</b>					
	0m	+24	+32	[°C]	ASTM C518 ASTM C335
	$\lambda \leq$	0.036	0.037	[W/(m·K)]	
<b>Resistance to water vapour</b>					
Water vapour permeability	0.05 ± 0.01 Perm inch				ASTM E96, Procedure A
Water vapour absorption	≤ 0.2 %				ASTM C1763
<b>Fire performance &amp; approvals</b>					
Flame spread index (FSI) and smoke development index (SDI)	25/50				ASTM E84
Flammability	HB, V-0				UL 94
Practical fire behaviour	Self-extinguishing, does not drip and does not spread flames.				
<b>Other technical features</b>					
Fungi resistance	Passed				ASTM G21
Bacterial resistance	Passed				ASTM E2182-18
Ozone resistance	Good				ASTM D1149-18, Method B

All data and technical information are based on results achieved under typical application conditions. Recipients of this information should, in their own interest and responsibility, clarify with our Technical department in due time whether or not the data and information apply to the intended application area.

Contact information or visiting card



All data and technical information are based on results achieved under typical application conditions. It is the customer's responsibility to verify if the product is suitable for the intended application. The responsibility for professional and correct installation and compliance with relevant building regulations lies with the customer. By ordering/receiving product you accept the **Armacell General Terms and Conditions of Sale** applicable in the region. Please request a copy if you have not received these.

Microban antimicrobial product protection is limited to the product itself and is not designed to protect the users of these products from disease causing microorganisms, or as a substitute for normal cleaning and hygiene practices. Microban International Ltd. makes neither direct nor implied health claims for the products containing Microban® antimicrobial product protection. Data, photomicrographs and information presented are based on standard laboratory tests and are provided for comparative purposes to substantiate antimicrobial activity for non-public health uses.

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## 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 3,000 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.

For more information, please visit:  
[www.armacell.com](http://www.armacell.com)

