

FLEXIBLE THERMAL INSULATION ENGINEERED
TO PREVENT CONDENSATION AND ENERGY LOSS

ArmaFlex[®] Class 0

The trusted insulation system for HVAC applications

- // Class 0 fire classification according to BS 476 Parts 6 and 7
- // Effectively reduces thermal and energy loss



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 **armacell[®]**
ArmaFlex[®]

FLEXIBLE THERMAL INSULATION ENGINEERED TO PREVENT CONDENSATION AND ENERGY LOSS

ArmaFlex Class 0

Highly flexible, closed-cell nitrile rubber insulation material with high water vapour diffusion resistance and low thermal conductivity. Class 0 fire classification according to BS 476 parts 6 and 7. 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



Reliable condensation control



Benefits

// Excellent 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.

// Closed-cell structure

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

// Condensation control

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

// Energy efficient

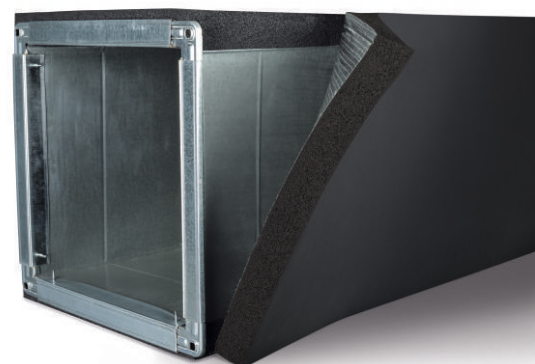
Low thermal conductivity minimises energy losses to give long term energy.

// Environmentally safe

Zero ozone depletion potential and global warming potential.

// Easy to install

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



TECHNICAL DATA - ARMAFLEX CLASS 0

Brief description	ArmaFlex Class 0 is a flexible insulation material that reliably protects against water vapour ingress due to its closed-cell structure.
Material type	Elastomeric foam based on synthetic rubber.
Colour	Black.
Product range	Available in plain and self adhesive rolls (sheet) of 6mm, 9mm, 13mm, 16mm, 19mm, 25mm and 32mm thicknesses and tubes of 9mm, 13mm, 19mm, 25mm and 32mm thicknesses. Self-adhesive tubes are also available in 19mm, 25mm and 32mm thicknesses.
Special features	No additional water vapour barrier is required.
Applications	Thermal insulation/protection of pipes, air ducts and vessels (including 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.
Safety and environment	Type III Environmental Product Declaration (EPD): Declaration number 4786944121.101.1, UL Environment.
Assembly	ArmaFlex can be used together with a variety of ArmaFlex adhesives such as, ArmaFlex Pipe Seal / ArmaFlex Duct Seal / ArmaFlex 520 adhesive and ArmaFix for a complete insulation system. Please refer to the ArmaFlex installation manual for advice.

Property	Value/Assessment	Standard/Test method																
Temperature range																		
Service temperature	Maximum service temperature	+105 °C	+85 °C if sheet or tape is glued to the object with its entire surface. [0 °C in case of self-adhesive sheets]	Tested according to EN 14706, EN 14707, EN 14304														
	Minimum service temperature	-50 °C																
Thermal conductivity																		
	<table border="1"> <thead> <tr> <th>Thickness</th> <th>+/-0</th> <th>+20</th> <th>+40</th> <th>[°C]</th> </tr> </thead> <tbody> <tr> <td>0m</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>$\lambda \leq$</td> <td>0.035</td> <td>0.037</td> <td>0.039</td> <td>[W/(m·K)]</td> </tr> </tbody> </table>	Thickness	+/-0	+20	+40	[°C]	0m					$\lambda \leq$	0.035	0.037	0.039	[W/(m·K)]		Tested according to EN 12667, EN ISO 8497
Thickness	+/-0	+20	+40	[°C]														
0m																		
$\lambda \leq$	0.035	0.037	0.039	[W/(m·K)]														
Water vapour diffusion resistance																		
Water vapour diffusion resistance factor	$\mu \geq 7,000$			Tested according to EN 12086, EN 13469														
Water absorption																		
Water absorption (by volume)	0.2%			Tested according to ASTM C 1763, ASTM C 209														
Fire performance and approvals																		
Fire performance according to building regulations	Class 0																	
Fire propagation	Total index performance (I) ≤ 12 Sub index (i ₁) ≤ 6			Tested according to BS 476 Part 6:1989														
Surface spread of flame	Class 1			Tested according to BS 476 Part 7:1997														
Flammability	HB, V-0			Tested according to UL-94														
FM-approved	Yes			Tested according to FM 4924														
Practical fire behaviour	Self-extinguishing, does not drip and does not spread flames.																	
Other technical features																		
Chemical behaviour	Excellent resistance to ozone, oil and chemicals (Consult product test list).																	
Environmental aspect	Zero ozone depletion potential, zero global warming potential, dust and fibre free.																	
Storage	Shall be stored in dry and clean area, away from direct sunlight.																	

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 us in due time whether or not the data and information apply to the intended application area. For outside use, ArmaFlex should be protected with Armafinish Paint or Arma-Chek covering within 3 days of installation.

Contact information or visiting card



All data and technical information are based on results achieved under the specific conditions defined according to the testing standards referenced. 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. Armacell takes every precaution to ensure the accuracy of the data provided in this document and all statements, technical information and recommendations contained within are believed to be correct at the time of publication. 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.

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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 3,135 employees and 24 production plants in 16 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.



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