



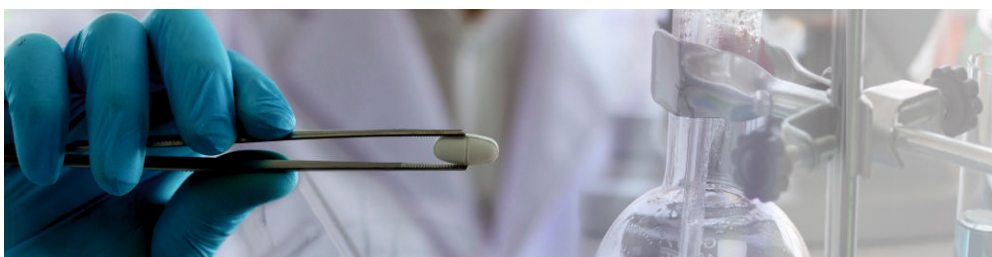
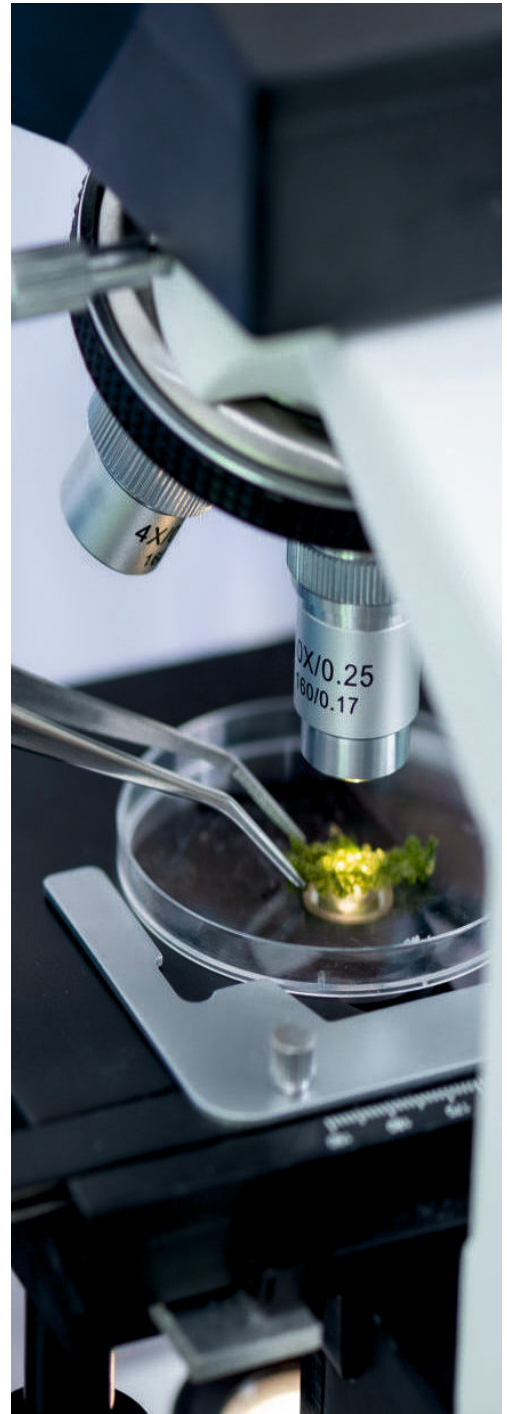
ANTIMICROBIAL INSULATION FOR ENHANCED
INDOOR AIR QUALITY

ArmaFlex[®] Class 0 Plus

Thermal insulation products made with Microban[®]
antimicrobial product protection.

- // Active protection against microbes such as bacteria,
fungi, mould and mildew
- // Promotes better indoor air quality
- // Reliable long-term thermal efficiency
- // Lifelong built-in Microban[®] antimicrobial product
- // Extremely low thermal conductivity, $\lambda 0^{\circ}\text{C} \leq 0.033 \text{ W}/(\text{m}\cdot\text{K})$
- // Very high water vapour diffusion resistance, $\mu \geq 10,000$

www.armacell.in




armacell[®]
ArmaFlex[®]

ANTIMICROBIAL DUCT INSULATION FOR ENHANCED INDOOR AIR QUALITY

ArmaFlex Class 0 Plus

The trusted insulation for HVAC applications. Conserves energy and reduces heat loss. Class 0 fire classification according to BS 476 Parts 6 and 7. Certified by leading international fire safety agencies. Fibre-free and infused with Microban antimicrobial product for even better indoor air quality.

Energy Efficient



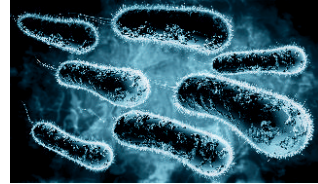
Easy to Install



Better Indoor Air Quality



Antimicrobial Protection



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

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

// Energy efficient

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

// 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.

// Easy to install

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

// Environmentally safe

Zero ozone depletion potential and global warming potential.



TECHNICAL DATA - ARMAFLEX CLASS 0 PLUS

Brief description	Highly-flexible, closed-cell insulation material with high water vapour diffusion resistance, low thermal conductivity and built-in antimicrobial protection.
Material type	Elastomeric foam based on synthetic rubber (nitrile butadiene rubber).
Colour	Green.
Material special information	ArmaFlex Class 0 Plus is infused with Microban antimicrobial product protection to inhibit the growth of mould, fungi and mildew.
Product range	Available in rolls (sheet) of 1m width and thicknesses of 8mm, 9mm, 12mm, 13mm, 16mm, 18mm, 19mm, 23mm, 25mm, 30mm and 32mm thicknesses. Options such as self-adhesive rolls and insulation precovered with Arma-Chek GC or aluminium foil are possible.
Applications ¹	Prevent condensation and enable energy efficiency through insulation of air-conditioning systems such as air ducts.
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 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	+85 °C										
	Minimum service temperature	0 °C										
Thermal conductivity												
	<table border="1"> <thead> <tr> <th>θm</th> <th>0</th> <th>+20</th> <th>+40</th> <th>[°C]</th> </tr> </thead> <tbody> <tr> <td>λ ≤</td> <td>0.033</td> <td>0.035</td> <td>0.037</td> <td>W/(m·k)</td> </tr> </tbody> </table>	θm	0	+20	+40	[°C]	λ ≤	0.033	0.035	0.037	W/(m·k)	Tested according to EN 12667
θm	0	+20	+40	[°C]								
λ ≤	0.033	0.035	0.037	W/(m·k)								
Water vapour diffusion resistance												
Water vapour diffusion resistance factor	μ ≥ 10,000	Tested according to EN 12086										
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	Tested according to BS 476 Part 6:1989										
Fire propagation	Total index performance (I) ≤ 12 Sub index (i _r) ≤ 6											
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.											
Antimicrobial behaviour ²												
Fungi resistance	No fungal and mould growth observed.	Tested according to EN ISO 846 method A										
Bacterial resistance	No bacterial growth observed.	Tested according to EN ISO 846 method C										
Other technical features												
Chemical behaviour	Excellent resistance to ozone, oil and chemicals (consult product test list).											
Environmental aspect	Zero ozone depletion potential and zero global warming potential, dust and fibre free.											
EPA approved ²	Yes											
Storage	Shall be stored in a dry and clean area, away from direct sunlight.											

[1] Please refer to the ArmaFlex installation manual for advice.

[2] Made with EPA registered Microban® antimicrobial product protection.

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. Installation instructions are available in our ArmaFlex installation manual.

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.

© Armacell, 2020. ® and ™ are trademarks of the Armacell Group and is registered in the European Union, United States of America, and other countries. MICROBAN® is a registered trademark of Microban Products Company.
00122 | ArmaFlex Class 0 Plus | ArmaFlex | TDS | 072020 | IN | EN

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.



Scan QR code for digital copy

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

