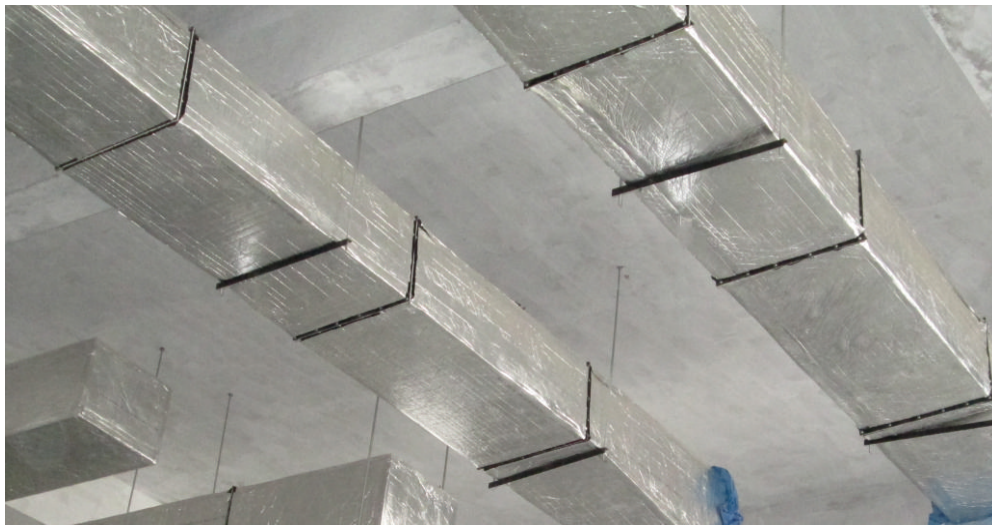




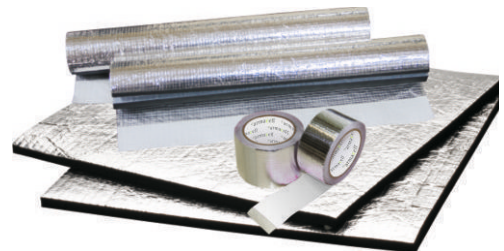
THE FLEXIBLE INSULATION WITH SILVER FINISH  
FOR BETTER AESTHETICS

# ArmaFlex® Class 0 Alu

Reliable insulation material with aesthetically appealing silver finish for cleanroom environments.

- // Easy to clean
- // Durable and high resistance to mechanical abuse
- // Aesthetically appealing silver finish
- // Very high water vapour diffusion resistance,  $\mu \geq 12,000$
- // Excellent fire resistance
- // Class 0 fire classification according to BS 476 Parts 6 and 7
- // Effectively reduces thermal and energy loss

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 **armacell®**  
ArmaFlex®

THE FLEXIBLE INSULATION WITH SILVER FINISH FOR BETTER AESTHETICS

# ArmaFlex Class 0 Alu

Highly flexible, closed-cell insulation material with very high water vapour diffusion resistance of  $\mu \geq 12,000$ . FM-Approved. Aesthetically appealing silver finish that is durable and resilient against mechanical abuse.

Aesthetically appealing



Easy to Install



Easy to Clean



## Benefits

### // Energy efficient

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

### // Closed-cell structure

Minimizes 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.

### // Aesthetically appealing

Durable foil facing is resistant to mechanical abuse and offers aesthetically appealing finish.

### // 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 ALU

|                                                    |                                                                                                                                                                                                                                                        |         |       |                                                                        |           |                                                  |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|------------------------------------------------------------------------|-----------|--------------------------------------------------|
| Brief description                                  | Highly-flexible, closed-cell insulation material with high water vapour diffusion resistance and low thermal conductivity.                                                                                                                             |         |       |                                                                        |           |                                                  |
| Material type                                      | Elastomeric foam based on synthetic rubber (NBR), with reinforced Aluminium Foil facing.                                                                                                                                                               |         |       |                                                                        |           |                                                  |
| Colour                                             | Silver                                                                                                                                                                                                                                                 |         |       |                                                                        |           |                                                  |
| Material special information                       | Laminated with 12 micron aluminium foil, with reinforced glass scrim.                                                                                                                                                                                  |         |       |                                                                        |           |                                                  |
| Product range                                      | Available in rolls (sheet) of 1m width and thicknesses of 6mm, 9mm, 13mm, 16mm, 19mm, 25mm and 32mm thicknesses. Self-adhesive rolls are also available as well as tubes of 1m length and 9mm, 13mm, 19mm, 25mm and 32 mm thicknesses.                 |         |       |                                                                        |           |                                                  |
| Applications                                       | Prevent condensation and enable energy efficiency through insulation of air-conditioning systems such as air ducts, especially for pharmaceutical industry or cleanroom environments.                                                                  |         |       |                                                                        |           |                                                  |
| Special features                                   | Bright silver finish and smooth surface; attracts less dust, is easy to clean and has high resistance to mechanical abuse.                                                                                                                             |         |       |                                                                        |           |                                                  |
| 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 |           | Tested according to EN 14706, EN 14707, EN 14304 |
|                                                    | Minimum service temperature                                                                                                                                                                                                                            | 0 °C    |       |                                                                        |           |                                                  |
|                                                    |                                                                                                                                                                                                                                                        |         |       |                                                                        |           |                                                  |
| Thermal conductivity                               |                                                                                                                                                                                                                                                        |         |       |                                                                        |           |                                                  |
|                                                    | 9m                                                                                                                                                                                                                                                     | 0       | +20   | +40                                                                    | [°C]      | Tested according to EN 12667, EN ISO 8497        |
|                                                    | λ ≤                                                                                                                                                                                                                                                    | 0.035   | 0.037 | 0.039                                                                  | [W/(m·K)] |                                                  |
|                                                    |                                                                                                                                                                                                                                                        |         |       |                                                                        |           |                                                  |
| Water vapour diffusion resistance                  |                                                                                                                                                                                                                                                        |         |       |                                                                        |           |                                                  |
| Water vapour diffusion resistance factor           | μ ≥ 12,000                                                                                                                                                                                                                                             |         |       |                                                                        |           | 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                                                                                                                                                                                                                                                |         |       |                                                                        |           | Tested according to BS 476 Part 6:1989           |
| Fire propagation                                   | Total index performance (I) ≤ 12<br>Sub index (i <sub>i</sub> ) ≤ 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.                                                                                                                                                                                          |         |       |                                                                        |           |                                                  |
|                                                    |                                                                                                                                                                                                                                                        |         |       |                                                                        |           |                                                  |
| Other technical features                           |                                                                                                                                                                                                                                                        |         |       |                                                                        |           |                                                  |
| Resistance to mechanical impact                    | Good                                                                                                                                                                                                                                                   |         |       |                                                                        |           |                                                  |
| Chemical behaviour                                 | Excellent resistance to ozone, oil and chemicals (consult product test list).                                                                                                                                                                          |         |       |                                                                        |           |                                                  |
| UV resistance                                      | Not recommended for outdoors.                                                                                                                                                                                                                          |         |       |                                                                        |           |                                                  |
| Environmental aspect <sup>†</sup>                  | Zero ozone depletion potential, zero global warming potential.                                                                                                                                                                                         |         |       |                                                                        |           |                                                  |
| 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. Installation instructions are available in our ArmaFlex installation manual.

<sup>1</sup> All data and technical information are provided above are based on results achieved under tests certified by the respective testing authorities for base foam only and not the complete system.

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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