

Armaflex® Alu E

SUPERIOR FIRE PERFORMANCE
SUPERIOR AESTHETICS



- Pre-covered insulation with excellent aesthetics
- Low thermal conductivity, $\lambda_{0^{\circ}\text{C}} \leq 0.035 \text{ W}/(\text{m}\cdot\text{K})$
- Excellent water vapour diffusion resistance, $\mu \geq 60,000$
- Easy to clean and maintain
- Class 0 fire classification to BS 476 part 6 & 7
- Durable and high resistance to mechanical impact

Technical Data - Armaflex® Alu E

Brief description	Armaflex® Alu E is a flexible, fibre-free insulation material laminated with an embossed silver-colour foil for enhanced aesthetic and mechanical protection. The closed-cell insulation material with superior performance in fire safety and maintenance is used for protection of HVAC ducts, especially in clean room conditions such as the pharmaceutical industries.
Material Type	Elastomeric foam based on Nitrile Butadiene Rubber (NBR), with tough Aluminium Foil facing
Colour	Base material is black; covering is metallic (pale silver)
Product Range	Available in sheets in 9 mm, 13 mm, 16 mm, 19 mm, 25 mm & 32 mm thickness. 1000 mm wide rolls.
Applications	Insulation to prevent condensation, reduce energy losses and protection against mechanical damage on HVAC ducts.
Special Features	Provides aesthetic metal finish and smooth surface; attracts less dust and easy to clean surface with high resistance to mechanical abuse
Assembly	Easy & faster installation due to flexible pre-covered foam material

Property	Value/Assessment					Special Remark
Temperature Range						
Temperature Range	max. service temperature	+ 85 °C				Tested acc. to EN 14706 EN 14304
	min. service temperature	0 °C				
Thermal Conductivity						
Thermal Conductivity	ϑ_m	0	+20	+40	[°C]	Tested acc. to EN 12667 EN ISO 8497
	λ	≤ 0.035	0.037	0.039	W/(m · K)	
Water vapour diffusion resistance						
Water vapour diffusion resistance	μ	≥	60,000			Tested acc. to EN 12086
Fire Performance						
Reaction to Fire	Fire performance acc. to building regulation	Class 0				Surface Spread of Flame: tested acc to BS 476 Part 7:1997 Fire Propagation: tested acc to BS 476 Part 6:1989
	Surface Spread of Flame	Class 1				
	Fire propagation	Total index performance (I) ≤ 12 Sub index (i _s) ≤ 6				
Practical Fire Behavior	Self-extinguishing, does not drip and does not spread flames					
Chemical Behaviour	Excellent resistance to ozone, oil and chemicals (consult product test list)					
Resistance to Mechanical Impact	Good					
UV Resistance	Not recommended for outdoors					
Safety and Environment	Dust & fibre free Zero ODP & GWP					
Storage & Shelf life	Shall be stored in dry & 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.

Armacell India Pvt. Ltd.

GAT No. 744-745, Village Lonikand, Pune Nagar Road • Pune 412216 •
Maharashtra • India
Phone +91 20 66782000
www.armacell.in • info.isa@armacell.com
CIN: U24293PN2005FTC131939