



ALP AFRICA (PTY.) LTD.

## AEROCELL - ALU™

### HIGH PERFORMANCE THERMAL INSULATION

#### ADVANTAGES

- ◆ High water vapour diffusion resistance
- ◆ Enhanced fire performance
- ◆ Superior aesthetics
- ◆ Easy to apply
- ◆ Durable & erosion-resistant
- ◆ FM Approved

#### CERTIFICATIONS



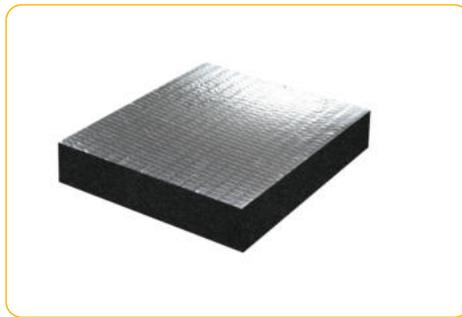
## PRODUCT DESCRIPTION

Aerocell-ALU is a closed cell Nitrile rubber Elastomeric foam insulation with reinforced aluminum foil lamination that combines high value, low thermal conductivity & mechanical protection. It ensures energy saving in eco-friendly manner with superior aesthetics. It is a perfect solution for insulating ducts, pipes, tanks & equipments.

Applications	Insulation to prevent condensation, reduce energy losses and protection against mechanical damage on HVAC ducts/ pipes and also used in clean room application such as the pharmaceutical industries.
Assembly	Aerocell-ALU can be used together with ALP Aeroflex adhesives (Aerostick) for a complete insulation system.
Product Range	Available in rolls (sheets) in 6, 9, 13, 16, 19, 25, 32 mm thickness of 1000, 1200 mm wide rolls. Available with factory laminated self-adhesive.

## TECHNICAL DETAILS

PROPERTIES	VALUES	TEST METHOD
Thermal Insulation Material	Closed Cell Elastomeric Nitrile Rubber Foam	
Laminate	Reinforced Aluminum foil	
Thermal conductivity (k value)	$\leq 0.034 \text{ w/m}^\circ\text{K}$ at $0^\circ\text{C}$ ; $\leq 0.035 \text{ w/m}^\circ\text{K}$ at $10^\circ\text{C}$ ; $\leq 0.036 \text{ w/m}^\circ\text{K}$ at $20^\circ\text{C}$ $\leq 0.037 \text{ w/m}^\circ\text{K}$ at $30^\circ\text{C}$ ; $\leq 0.038 \text{ w/m}^\circ\text{K}$ at $40^\circ\text{C}$	ASTM C 518
Water vapour diffusion resistance factor ( $\mu$ )	$\geq 12000$	ASTM E-96
Density ( $\text{Kg/m}^3$ )	40 to 60	ASTM-D-1056
Service Temperature	$-40^\circ\text{C}$ to $105^\circ\text{C}$	
<b>Fire &amp; Smoke Characteristics</b>		
A) Fire performance acc. to building regulation	Class 0	BS 476 Part 6 & 7
B) Surface Flame Spread	Class 1	BS 476 Part 7
C) Fire Propagation	Total Index (I) $<12$ & Sub index (II) $<6$	BS 476 Part 6
D) Rate of Burning (Vertical Position)	Class V-0	UL 94
E) Practical Fire Behaviour	Self-Extinguishing, does not drip, does not spread flames	ASTM D635
Ozone depleting substances (CFC/ HCFC)	Not detected, No Asbestos	GC-MS
FM Approval		Approved
Indoor air quality (VOCs)	Green guard gold certified	UL 2818



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**Disclaimer:** Although these values represent actual results achieved in tests, they should only be used as a guide. ALP Aeroflex cannot guarantee the performance of the product as all situations are different & should be treated separately. All statements & Technical informations are based on results obtained under typical conditions. It is the responsibility of the recipient to verify with us that the informations are appropriate for specific use intended by the recipient.