



## AEROCELL - ALU EN™



**HIGH PERFORMANCE  
THERMAL INSULATION WITH  
EMBOSSED ALUMINUM FOIL**

### ADVANTAGES

- ◆  $\mu \geq 60000$
- ◆ Easy to apply, clean and maintain
- ◆ Durable & erosion resistant
- ◆ Embossed foil for excellent aesthetics
- ◆ Class 0
- ◆ FM approved

### CERTIFICATIONS



## PRODUCT DESCRIPTION

Aerocell-ALU EN is a closed cell Nitrile rubber Elastomeric foam insulation with Embossed aluminum foil lamination that combines high  $\mu$ -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 EN can be used together with ALP Aeroflex adhesives (Aerostick) for a complete insulation system.
Product Range	Available in plain rolls (sheets) in 9, 13, 16, 19, 25, 32 mm thickness of 1000 mm wide rolls

## TECHNICAL DETAILS

PROPERTIES	VALUES	TEST METHOD
Thermal Insulation Core	Closed Cell Elastomeric Nitrile Rubber Foam	
Laminate	60 micron embossed aluminum foil	
Thermal conductivity (k value)	$\leq 0.035 \text{ w/m}^\circ\text{K}$ 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 ( $\mu$ )	$\geq 60000$	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 according 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 94-1997
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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\*This product is not recommended for outdoor use.

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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 data and technical information are provided above are based on results obtained in tests carried out under typical conditions, by the respective testing authorities for base foam only. It is the responsibility of the recipient to verify with us that the information is appropriate for specific use intended by the recipient.