



AEROCELL - ALUTM

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 μ -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	Sheets: Available in rolls of 6mm, 9mm, 13mm, 16mm, 19mm, 25mm, 32mm and 38mm thicknesses with 1200mm width and 50mm thickness with 1000 mm width Tubes: Also Available in tubes of 9mm, 13mm, 19mm, 25mm, 32mm upto 50mm thicknesses with Inner Diameter from 6mm to 150mm. Also available with Self-adhesive.

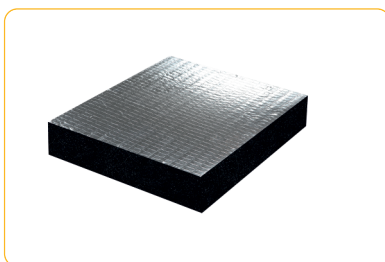
TECHNICAL DETAILS

PROPERTIES	VALUES	TEST METHOD
Thermal Insulation Material	Closed Cell Elastomeric Nitrile Rubber Foam	
Laminate	Reinforced Aluminum foil	
Water vapour diffusion resistance factor (μ)	≥ 12000	ASTM E-96
Foam Density (Kg/m^3)	40 to 60	ASTM-D-1056
Service Temperature	-40°C to 105°C	
Thermal Conductivity (Foam)	$\leq 0.035 \text{ W/m}^\circ\text{K}$ at 10°C ; $\leq 0.036 \text{ W/m}^\circ\text{K}$ at 20°C $\leq 0.037 \text{ W/m}^\circ\text{K}$ at 30°C ; $\leq 0.038 \text{ W/m}^\circ\text{K}$ at 40°C	ASTM-C-518
Fire & Smoke Characteristics		
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	US EPA 5021A
FM Approval		Approved
Indoor air quality (VOCs)	Green guard gold certified	UL 2818

SIZE	THICKNESS	WIDTH
For Thickness 6mm To 19mm	$\pm 1 \text{ mm}$	For 1200mm: $\pm 30 \text{ mm}$
For Thickness Above 19mm To 32mm	$\pm 2 \text{ mm}$	For 1200mm: $\pm 30 \text{ mm}$
For Thickness Above 32mm To 40mm	$\pm 3 \text{ mm}$	For 1200mm: $\pm 30 \text{ mm}$
For Thickness Above 40mm To 45mm	$\pm 4 \text{ mm}$	For 1200mm: $\pm 30 \text{ mm}$
For Thickness 50mm & Above	$\pm 5 \text{ mm}$	For 1000mm: $\pm 20 \text{ mm}$

Storage condition : Store in Clean & Dry Rooms (Covered) Away from Direct Sunlight & Water.

Shelf life of material with self adhesive: 6 months from date of Invoice



DOWNLOAD
CATALOGUE



ALP AEROFLEX INDIA PVT. LTD.

Corporate Office: Plot No. 32, Sector-18 HUDA, Gurgaon, Haryana - 122015 (INDIA)

+91-124-4731500 marketing@alpaeroflex.com www.alpaeroflex.com

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.