



## AEROCELL - ALU<sup>TM</sup>



### 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  $\mu$ -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 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)	$\leq 0.034$ w/m $^{\circ}$ K at 0 $^{\circ}$ C; $\leq 0.035$ w/m $^{\circ}$ K at 10 $^{\circ}$ C; $\leq 0.036$ w/m $^{\circ}$ K at 20 $^{\circ}$ C $\leq 0.037$ w/m $^{\circ}$ K at 30 $^{\circ}$ C; $\leq 0.038$ w/m $^{\circ}$ K at 40 $^{\circ}$ C	ASTM C 518
Water vapour diffusion resistance factor ( $\mu$ )	$\geq 12000$	ASTM E-96
Density (Kg/m $^3$ )	40 to 60	ASTM-D-1056
Service Temperature	-40 $^{\circ}$ C to 105 $^{\circ}$ 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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