

# AB FOAM - XLPE



**Cross-Linked Closed Cell  
Polyolefin Foam Insulation**

## Product Description

AB FOAM - XLPE is designed taking into account the stringent norms of internationally accepted properties for the top-of-the-line Insulation materials.

AB FOAM - XLPE is an answer for various application areas requiring low thermal conductivity and fire class approved product with very flexible still tough insulation material which offers ease of installation along with durable life span.

AB FOAM - XLPE is classified as Class "0" complying to BS 476 part 6 and part 7. Thus offering an excellent fire resistance and use in multiple applications areas where the fire safety is paramount.

AB FOAM - XLPE is manufactured at our World Class Manufacturing facility in Klang, near Selangor with machinery setup capable of manufacturing the products adhering to strict international norms. AB FOAM - XLPE engages the best quality raw materials, manufacturing practices and quality management system to ensure a superior quality end product.



## Application Area

AB FOAM - XLPE can be used for air conditions ducting, piping insulation, wall insulation, acoustic insulation, underdeck insulation, tank insulation and many other interior application. AB FOAM - XLPE can be used in HVAC, Refrigeration, Pharmaceuticals, Solar Systems, Automotives, Hospitals, Industrial PEB's, Room & Machines Acoustic, Plumbing, Marine & Shipbuilding Industries and etc.

## Technical Benefits & Advantages

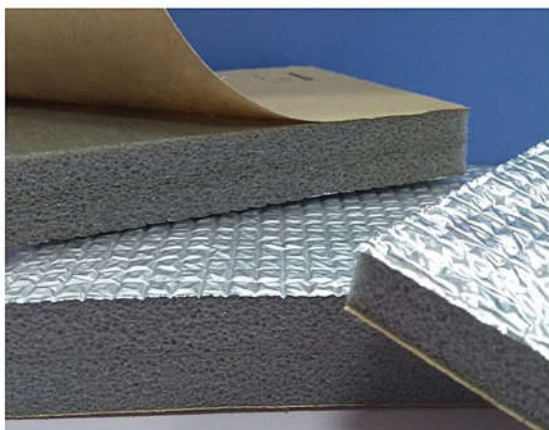
- The completely Closed cell structure by cross-linking polymers ensure a consistent insulation property in the body of insulation. It offers the best resistance to water vapour ingress thus maintain the thermal conductivity of the Insulation.
- Comes with heat bonded factory laminated alufoil for long life. The AB FOAM - XLPE with alufoil takes care of UV rays, mechanical damages as well as the acts as a barrier for water vapours.
- AB FOAM - XLPE is a flexible insulation system. Being flexible it can be installed at ease on various surfaces. The flexibility reduces the installation time and simpler installation saves the cost of installation.
- AB FOAM - XLPE is technically superior insulation due to low thermal conductivity @ 0.032 w/m.K and high resistance to water vapour with  $\mu$  value > 10000
- AB FOAM - XLPE has a main objective of help the energy efficiency sustainability of the project. AB FOAM - XLPE is designed with zero PVC, it is formaldehyde free, it offer excellent resistant to mould growth and has an ozone depletion potential of zero. AB FOAM - XLPE is CFC and HCFC free product thus it is an environmental friendly green product.
- AB FOAM - XLPE insulation product has been tested and certified for its properties by third party international labs. The AB FOAM - XLPE products designed for the world market taking into consideration the various requirements laid down by technical standards in various countries.
- Fire safety is paramount importance when it comes to any building materials. The AB FOAM - XLPE is complying with BS 476 part 6 and part 7 norms and is classified as class "0" product.
- AB FOAM - XLPE with its closed cell structure has an excellent sound absorption properties.
- Being designed with optimal effectiveness the AB FOAM - XLPE insulation is cost effective. Being flexible and easy to apply, saves the installation costs and time involved in installation.
- The AB FOAM - XLPE is a fibre free and dust free material, and help maintain the clean air quality in the conditioned spaces as well, it doesn't cause any health hazards.

# Technical Specification

## AB FOAM - XLPE

PHYSICAL PROPERTIES	RESULT	TEST METHOD
Density	30 Kg/m <sup>3</sup> ±10%	
Color	Grey	
Thermal Conductivity	0.0322 W/m.k @ 23deg C 0.0361 W/m.k @ 36deg C	ASTM C518 - DIN 52615
Tear Resistance	0.8 N/mm (DIN53507) MD, 0.38 Mpa for Insulation with Alufoil 0.8 N/mm (DIN53507) CD, 0.27 Mpa for Insulation with Alufoil	ASTM D 571
Elongation At Break (ISO 1798)	160% MD and 60% for Insulation with Alufoil 200% MD and 60% for Insulation with Alufoil	
Color Tensile Testing	0.25 Mpa MD (ISO1798) 0.19 Mpa CD (ISO1798)	ASTM D571
Compression Stress strain At Deflection (ISO 3386)	@ 10% - 13 Kpa @ 25% - 31 Kpa @ 50% - 87 Kpa	
Compression Set 22h, 25%, 22 Deg C (ISO 1856)	@ 0.5 Hr - < 17 @ 24 Hr - < 9	
Thermal Stability	No visible change observed at Rh 60%, Temp 35 Deg, for 24 hrs	BS 4730 part 1
UV Weathering	Excellent	
Salt Resistance Internal Test 2 week immersion in 5% Salt Solution	No Visible Change observed	
Fire Performance	Class "0"	BS 467 part 6 & 7
Horizontal Burning Test	Approved (HF-1) (E193277)	UL 94 HBF
Flame Spread	Index < 25	ASTM E 84
Smoke Developed	Index < 50	
Ignitability	0	
Spread of Flame	Index 0	AWTA 1530 part 3
Heat Evolved	Index 0	
Smoke Developed	Index 0 - 1	
Volume % of Closed Cell	>90%	BS 4370 Part 2
Noise Reduction Coefficient	0.20 for 12mm foam thickness 0.30 for 25mm foam thickness	AS 1045
Resistance to Fungi	Zero Growth	ASTM G21
Ozone Resistance	Excellent	
UV resistant	Excellent	
Operating Temperature	- 40 to 115 Deg C	
Water Absorption by Volume	<0.1% v/v (0.00038 g/cm <sup>3</sup> )	JIS K6767 - EN 13472
Permeability Resistance Factor	> 20000 for foam with Alufoil	
Water Vapour Permeability (ISO E96)	2.298 x 10 <sup>-15</sup> kg/Pa.s.m as per ISO E96	
Water Vapour Permeance	0.000195 µg / N.s for 12mm	ASTM E 96
Green Star Rating	Low VOC Emitting	ASTM D5116
Chemical Resistance	No effect	ASTM C 543
Sound Transmission Class for 9mm foam with 12mm substrate sheet (ISO 140)	40 dB	ASTM E 413

AB FOAM - XLPE reserves the right to change data and technical requirements without notice.

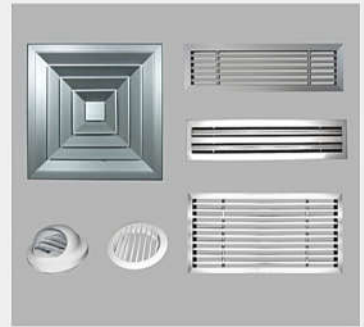
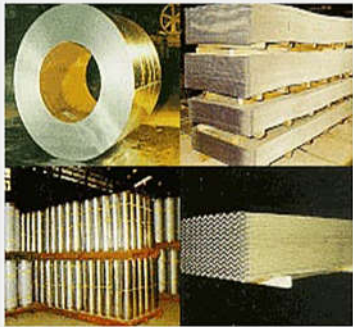


## Packing Data

Thickness (mm)	Length (m)	Width (m)	Area/Roll Sq. Mtr
6	80	1.2	96
9	60	1.2	72
12	60	1.2	72
16	60	1.2	72
19	45	1.2	54
25	30	1.2	36
32	20	1.2	24



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Glass Cloth Tape



Diffuser Duct



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