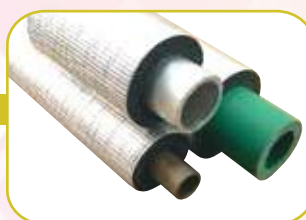
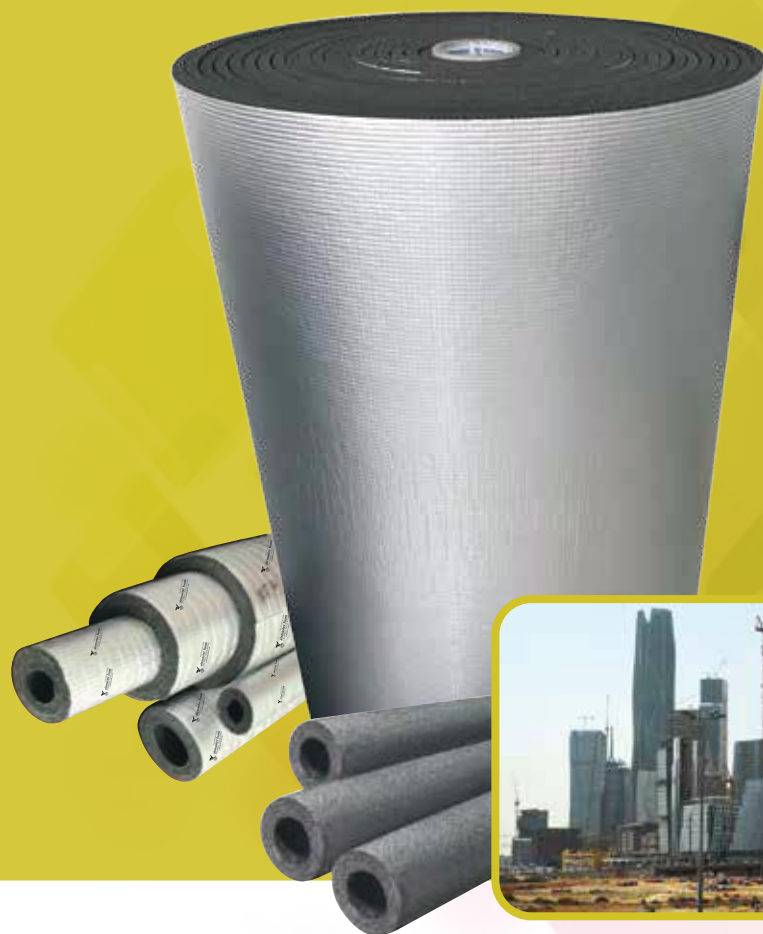


airmaster Thermal Insulation

CROSS - LINKED POLYOLEFIN FOAM



- Resilient
- Excellent buoyancy
- Good thermal insulator
- Excellent strength and shock absorption



airmaster Equipment Emirates L.L.C
www.airmasteremirates.com

- Low water absorption
- Impervious to mildew, mold, rot, and bacteria
- Excellent chemical resistance
- Nontoxic and contains no CFCs, HCFCs, or hydrocarbon blowing agents



XL PE PIPE SECTIONS									
PIPE SIZE		THICKNESS							
IRON PIPE	COPPER TUBE	10mm	12mm	15mm	20mm	25mm	30mm	40mm	50mm
	16	16 x 10	16 x 12	16 x 15	16 x 20	16 x 25	16 x 30	16 x 40	16 x 50
	19	19x10	19x12	19x15	19x20	19x25	19x30	19x40	19x50
1/2"	22	25x10	22x12	22x15	22x20	22x25	22x30	22x40	22x50
	25	25x10	25x12	25x15	25x20	25x25	25x30	25x40	25x50
3/4"	28	28x10	28x12	28x15	28x20	28x25	28x30	28x40	28x50
	32	32x10	32x12	32x15	32x20	32x25	32x30	32x40	32x50
1"	35	35x10	35x12	35x15	35x20	35x25	35x30	35x40	35x50
	40	40x10	40x12	40x15	40x20	40x25	40x30	40x40	40x50
1 1/4"	43	43x10	43x12	43x15	43x20	43x25	43x30	43x40	43x50
1 1/2"	50	50x10	50x12	50x15	50x20	50x25	50x30	50x40	50x50
2"	60	60x10	60x12	60x15	60x20	60x25	60x30	60x40	60x50
	75	75x10	75x12	75x15	75x20	75x25	75x30	75x40	75x50
2 1/2"	77	77x10	77x12	77x15	77x20	77x25	77x30	77x40	77x50
3"	90	90x10	90x12	90x15	90x20	90x25	90x30	90x40	90x50
	110	110x10	110x12	110x15	110x20	110x25	110x30	110x40	110x50
4"	115	115x10	115x12	115x15	115x20	115x25	115x30	115x40	115x50
	125	125x10	125x12	125x15	125x20	125x25	125x30	125x40	125x50
5"	140				140x20	140x25	140x30	140x40	140x50
	160				160x20	160x25	160x30	160x40	160x50
6"	166				166 x20	166 x25	166 x30	166 x40	166 x50
8"	220				220 x 20	220 x 25	220 x 30	220 x 40	220 x 50
10"	273				273 x 20	273 x 25	273 x 30	273 x 40	273 x 50
12"	323				323 x 20	323 x 25	323 x 30	323 x 40	323 x 50
14"	356				356x 20	356x 25	356x 30	356x 40	356x 50
16"	406				406 x20	406 x25	406 x30	406 x40	406 x50
18"	457				457 x20	457 x25	457 x30	457 x40	457 x50

PIPE SECTION LENGTH <6":1.5 METERS:6":1 METERS>6:1.2METERS

TOLERANCE : THICKNESS:± 1- 1.5 MM LENGTH ± 1- 1.5CM

TUBES WITHOUT FOIL AND OTHER DIAMETERS UPTO 40° ARE ALSO AVAILABE ON SPECIAL REQUEST

IEPE (PHYSICALLY CROSSED LINK)										
SIZE	INSULATION THICKNESS									
INCH	MM	SIZE	SURFACE	TYPE	IPE	IPE SA	IPE AL	IPE SA-AL	IPE ALG	IPE SA-ALG
	3	1.2m x 20m	24m ²	Roll	3	3 SA	3 AL	3 SA-AL	3 ALG	3 SA-ALG
1/4"	5	1.2m x 20m	24m ²	Roll	5	5 SA	5 AL	5 SA-AL	5 ALG	5 SA-ALG

XL PE ROLLS AND SHEETS										
SIZE	INSULATION THICKNESS									
INCH	MM	SIZE	SURFACE	TYPE	IPE	IPE SA	IPE AL	IPE SA-AL	IPE ALG	IPE SA-ALG
3/8"	10	1.2m x 20m	24m ²	Roll	10	10 SA	10 AL	10 SA-AL		
1/2"	12	1.2m x 20m	24m ²	Roll	12	12 SA	12 AL	12 SA-AL	12 ALG	12 SA-ALG
	15	1.2m x 20m	24m ²	Roll	15	15 SA	15 AL	15 SA-AL	15 ALG	15 SA-ALG
3/4"	20	1.2m x 20m	24m ²	Roll	20	20 SA	20 AL	20 SA-AL	20 ALG	20 SA-ALG
1"	25	1.2m x 24m	2.88m ²	Sheet	25	25 SA	25 AL	25 SA-AL	25 ALG	25 SA-ALG
1 1/4"	30	1.2m x 24m	2.88m ²	Sheet	30	30 SA	30 AL	30 SA-AL		
	35	1.2m x 24m	2.88m ²	Sheet	35	35 SA	35 AL	35 SA-AL		
1 1/2"	40	1.2m x 24m	2.88m ²	Sheet	40	40 SA	40 AL	40 SA-AL		
2"	50	1.2m x 24m	2.88m ²	Sheet	50	50 SA	50 AL	50 SA-AL		

TOLERANCE: THICKNESS ± 1- 1.5 mm: Length: ± 2 cm

SA-self adhesive ; AL-aluminium foil; ALG- Aluglass

TECHNICAL SPECIFICATION

Cross-Linked Polyolefin Foam (XLPE)

XLPE is chemically crosslinked Polyolefin foam is extremely fine closed cells foam and smooth skins on both sides. It is light in weight, flexible, soft in touch, strong and tough in physical properties, resilient and resistant to moisture, chemicals and extreme temperature.

It typically offers superior thermal stability and insulating properties improved dimensional consistency and stability over a wide range of fabrication methods and end-user's conditions. It is easy to work in fabricating and thermoforming. XLPE foams works well in building and construction industry where thermal insulation, sound and vibration are critical, due to its low moisture permeability and high buoyancy.



PROPERTIES	VALUE	TEST METHOD
Material	Chemically Cross link Polyolefin foam
Cell structure	Closed cell	Digital Analysis
Thickness	2mm to 50mm	(Based on customer request)
Temperature range	-70 to 100° C	
Density	27 kg/m ³ - 35 kg /m ³	ASTM D 1667
Thermal Conductivity(W/Mk)	@ 23°c (mean temperature)0.034 @ 40°c (mean temperature)0.038	ASTM C 518-04
Water vapour permeability mu value	μ>10.000	
Water Absorption by Volume	0.00065g/cm2	ASTM C 518-04
Fire Rating	UL 94 : HF-1 Flammability Extent of Burning : 38mm (KS M3809:1997) Flammability Time of Burning : 0 Sec (KS M3809:1997) ASTME 84 : Flame Spread Index <25 Smoke Developed Index < 50	BS 476 Part 6&7 : Class 1
Smoke Toxicity	Non toxic , HCN Free	
Overall Toxicity in fire	None : 99% CO2 and H2O upon Complete combustion. Force 10% 0.045 – 0.045 N/mm ²	ABD 0031
Pressure Resistance	Force 20% 0.045 – 0.055 N/mm ² Force 50% 0.045 – 0.080 N/mm ²	ISO844 DIN53577
Tear Strength	Good	DIN53577
Ozone Resistance	Excellent
Chemical Resistance	Excellent	ASTM 543
UV and Water Resistance	Excellent	ISO4892-2
Resistance to Fungi:	Zero Growth	ASTM G21



airmaster

ادفانس

للتعليب والمواد اللاصقة ذ.م.م

airmaster Thermal Insulation



Fire resistance and low toxic smoke emission

airmaster® XLPE is rated CLASS O as per BS 476 Part 6 (fire propagation) and BS 476 7 (Surface spread of flame). According to ASTM E84, airmaster® XLPE achieved the highest ranking (Class 1). However, in case of fire, most of the deaths result from smoke inhalation, airmaster® XLPE passed the concentration limits of combustion gases as per BS 6853 and IMO MSC 61 (67) 1996, Annex 1, Part 2, airmaster® XLPE is an UL listed product.



Zero water vapor permeability and low water absorption rate

Condensation control is the first challenge faced by any insulation material. Being composed of a foam with more than 90% closed cell content and a watertight alupet foil, airmaster® XLPE can be installed on ducts or pipes without any other additional water vapor barriers. The excellent protection against condensation ensures also the long-term thermal efficiency of the installation.



Excellent thermal efficiency

airmaster® XLPE has a low thermal conductivity, which guarantees a high performance improvement of the installation in terms of thermal block. Combined with the excellent condensation control property. The thermal efficiency will be maintained for a long period of time.



Environment friendly

airmaster® XLPE is a CFC and HCFC free product. It does neither contain nor use in its production any of the substances that contribute to the Ozone Depletion Potential (ODP) or to the Global Warming Potential (GWP), airmaster® XLPE doesn't emit any loose fibers and has a very low emission level (VOC).



Cost saving

Due to the reduced number of accessories needed to install airmaster® XLPE and due to the short installation time. Our product cuts down the overall insulation costs of the project. In the same time, due to its excellent mechanical properties it guarantees a high return on investment in terms of life expectancy.

airmaster® XLPE can be used successfully in projects where the indoor air quality is a major concern. Please consult our leaflets developed especially for learning facilities projects and medical facilities projects.



advance

Packaging & Adhesives LLC

P.O Box : 3876, Umm Al Quwain, UAE
Tel : +971 6 7672130, Fax : +971 6 7436700
e-mail : info@advanceemirates.com
www.advanceemirates.com