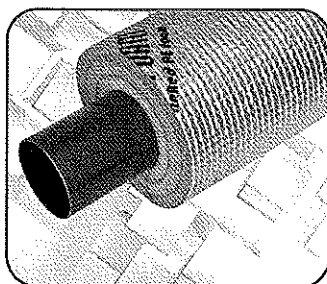
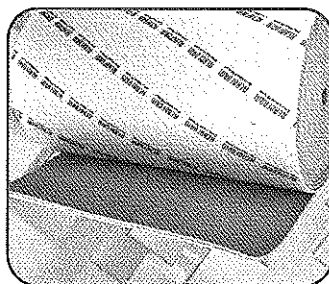
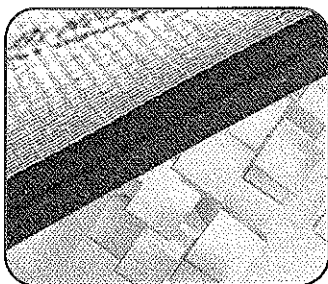
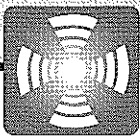


AEROFOAM[®]-XLPE

POLYOLEFIN INSULATION



CROSS LINKED CLOSED-CELL POLYOLEFIN FOAM SUITABLE FOR CONDENSATION CONTROL, THERMAL INSULATION AND SOUND ABSORPTION.

CLASS 0

Hira
INDUSTRIES

MADE IN U.A.E

AEROFOAM®-XLPE

POLYOLEFIN INSULATION

Easy to apply on ducts as sheet or roll

Very good sound absorption properties

In-built water vapor barrier

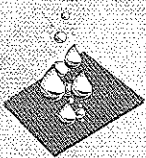
Water tight and mechanical resistant foil

Perfect match to the outer diameter of the pipe

Easy to apply - self adhesive rolls and sheets

AEROFOAM® XLPE is a closed cell cross linked polyolefin foam mainly used as thermal insulation to protect against condensation, heat loss and also sound propagation.

AEROFOAM® XLPE is reinforced with an alupet foil and has a factory applied adhesive liner on the backside.



Zero water vapour permeability and almost zero water absorption

Condensation is the major problem caused by an insufficient insulation. AEROFOAM® XLPE having more than 90% closed cell material in addition to the alupet foil face can be classified as vapour barrier even without additional vapour barrier coatings or foil.



Fire resistance and smoke emission

AEROFOAM® XLPE is rated Class 0 as per BS 476 Part 6 & 7 for spread of flame and fire propagation. In cases of fire, people staying at higher levels of a structure would not be harmed by the fire but by the smoke density and toxicity. AEROFOAM® XLPE passed the concentration limits of combustion gases as per BS 6853 and as per ISO 5659 - 2 IMO resolution MSC 61 (67) 1996 ANNEX 1, PART 2.



Environment Friendly

AEROFOAM® XLPE is CFC and HCFC free and does not contain nor use in its production any of the substances that contribute to Ozone Depletion Potential (ODP) nor those listed as Non-Ozone depletion substances with Global Warming Potential (GWP). AEROFOAM® XLPE does not emit any loose fibres and is dust and fibre free.



Ease Of installation

Being an integrated insulation material with closed cell polyolefin foam and alupet foil face and further supplied with a specially developed acrylic adhesive, AEROFOAM® XLPE does not require any additional materials like canvas and cuts the installation time up to a third.

AEROFOAM® XLPE PIPE SECTIONS

Pipe size		Insulation thickness								
Inch	MM	5 mm	10 mm	13 mm	15 mm	20 mm	25 mm	30 mm	40 mm	50 mm
1/2"	22	TPFNN2205	TPFNN2210	TPFNN2213	TPFNN2215	TPFNN2220	TPFNN2225	TPFNN2230	TPFNN2240	TPFNN2250
3/4"	28	TPFNN2805	TPFNN2810	TPFNN2813	TPFNN2815	TPFNN2820	TPFNN2825	TPFNN2830	TPFNN2840	TPFNN2850
1"	35	TPFNN3505	TPFNN3510	TPFNN3513	TPFNN3515	TPFNN3520	TPFNN3525	TPFNN3530	TPFNN3540	TPFNN3550
1 1/4"	43	TPFNN4305	TPFNN4310	TPFNN4313	TPFNN4315	TPFNN4320	TPFNN4325	TPFNN4330	TPFNN4340	TPFNN4350
1 1/2"	50	TPFNN5005	TPFNN5010	TPFNN5013	TPFNN5015	TPFNN5020	TPFNN5025	TPFNN5030	TPFNN5040	TPFNN5050
2"	60	TPFNN6005	TPFNN6010	TPFNN6013	TPFNN6015	TPFNN6020	TPFNN6025	TPFNN6030	TPFNN6040	TPFNN6050
2 1/2"	77	TPFNN7705	TPFNN7710	TPFNN7713	TPFNN7715	TPFNN7720	TPFNN7725	TPFNN7730	TPFNN7740	TPFNN7750
3"	90	TPFNN9005	TPFNN9010	TPFNN9013	TPFNN9015	TPFNN9020	TPFNN9025	TPFNN9030	TPFNN9040	TPFNN9050
4"	115	TPFNN11505	TPFNN11510	TPFNN11513	TPFNN11515	TPFNN11520	TPFNN11525	TPFNN11530	TPFNN11540	TPFNN11550
5"	140	TPFNN14005	TPFNN14010	TPFNN14013	TPFNN14015	TPFNN14020	TPFNN14025	TPFNN14030	TPFNN14040	TPFNN14050
6"	166	TPFNN16605	TPFNN16610	TPFNN16613	TPFNN16615	TPFNN16620	TPFNN16625	TPFNN16630	TPFNN16640	TPFNN16650
8"	220	TPFNN22005	TPFNN22010	TPFNN22013	TPFNN22015	TPFNN22020	TPFNN22025	TPFNN22030	TPFNN22040	TPFNN22050
10"	273	TPFNN27305	TPFNN27310	TPFNN27313	TPFNN27315	TPFNN27320	TPFNN27325	TPFNN27330	TPFNN27340	TPFNN27350
12"	323	TPFNN32305	TPFNN32310	TPFNN32313	TPFNN32315	TPFNN32320	TPFNN32325	TPFNN32330	TPFNN32340	TPFNN32350

Pipe section length: < 6": 1.5 meters; 6": 1 meter; > 6": 1.2 meters

Tolerance: Thickness: ±1 - 1.5 mm; Length: ± 1-1.5 cm

Tubes without foil and diameter up to 40" are also available upon special request.

AEROFOAM® XLPE ROLLS AND SHEETS

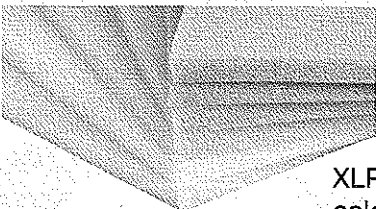
Size		Insulation thickness							
Inch	MM	Size	Surface	Type	XLPE	XLPE SA	XLPE AL	XLPE SA-AL	XLPE CLAD
1/4"	5	1.2 m x 20 m	24 m ²	Roll	TNNN5	TNAN5	TPFNN5	TPFAN5	TCNN5
3/8"	10	1.2 m x 20 m	24 m ²	Roll	TNNN10	TNAN10	TPFNN10	TPFAN10	TCNN10
	12	1.2 m x 20 m	24 m ²	Roll	TNNN12	TNAN12	TPFNN12	TPFAN12	TCNN12
1/2"	13	1.2 m x 20 m	24 m ²	Roll	TNNN13	TNAN13	TPFNN13	TPFAN13	TCNN13
	15	1.2 m x 20 m	24 m ²	Roll	TNNN15	TNAN15	TPFNN15	TPFAN15	TCNN15
3/4"	20	1.2 m x 20 m	24 m ²	Roll	TNNN20	TNAN20	TPFNN20	TPFAN20	TCNN20
1"	25	1.2 m x 2.4 m	2.88 m ²	Sheet	TNNN25	TNAN25	TPFNN25	TPFAN25	TCNN25
1 1/4"	30	1.2 m x 2.4 m	2.88 m ²	Sheet	TNNN30	TNAN30	TPFNN30	TPFAN30	TCNN30
1 1/2"	40	1.2 m x 2.4 m	2.88 m ²	Sheet	TNNN40	TNAN40	TPFNN40	TPFAN40	TCNN40
2"	50	1.2 m x 2.4 m	2.88 m ²	Sheet	TNNN50	TNAN50	TPFNN50	TPFAN50	TCNN50

SA - self adhesive; AL - with alupet foil; SA-AL - self adhesive with alupet foil; CLAD - with pre applied PVC cladding

Tolerance: Thickness ± 1 - 1.5 mm; Length: ± 2 cm

ACCESSORIES

Name	Unit
Aerofoam glue 2.5 l	litre
Aerofoam alupet tape 2" width	roll
Aerofoam foam tape 2" width	roll



XLPE foam is available also in other colors on request. Also alupet foil of different colors (blue, black, golden) coated on the foam can be offered on request.

TECHNICAL DATA

Description: Flexible closed cell insulation material with high water vapor diffusion resistance and low thermal conductivity.

Material: Cross linked polyolefin foam with density of 25-30 Kg/m³ and grey color.

Self-adhesive coating: Pressure sensitive adhesive coating. Reinforced with heat laminated embossed pure alupet foil.

Applications: Insulation/protection for pipes, air ducts, vessels (incl. elbows, fittings, flanges, etc.) and process equipment to prevent condensation, save energy and block sound propagation.

Property	Value / Assessment*	Tested acc. to:
Temperature range Max. line temperature Min. line temperature Our Customer Service Center should be consulted for applications with temperatures below - 80° C.	+ 100° C - 80° C (-150° C)	DIN EN 14706 : 2005 (E)
Thermal conductivity λ [W/(m-K)] at 24 [°C]	0.034	ASTM C518
Water vapour permeability [g/h .m]	0	ASTM E96
Water vapor permeance [perms]	0	ASTM E96
Water absorption [% by volume]	0.3	BS EN 12087: 1997
Reaction to fire 1. Building material class** 2. Practical fire behaviour 3. Compliance	Class O Low flammability, self-extinguishing, does not spread flames NFPA compliant	BS 476 Part 6 and 7 ASTM E84 NFPA
Smoke and toxicity 1. Smoke toxicity levels 2. Toxic smoke (R-value)	Passed 0.77	IMO MSC 61(67) BS 6853: 1999
Acoustic insulation	Reduction of structure-borne sound transmission	DIN EN ISO 3822-1
Resistance to fungi	Excellent	ASTM G21 : 2009
Resistance to bacteria	Excellent	ISO 22196 : 2007
Chemical resistance	Very good	ASTM C871 ASTM D1149
Ozone resistance	Excellent	
Odour	Negligible	SAEJ 1351
Storage life Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0° C – 35° C).	1 year for self-adhesive sheets/rolls, self-adhesive tapes	

* Further documents such as test certificates or approvals can be requested from the manufacturer.

** The building materials classification is valid on metal or solid, mineral surfaces.

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