



ASTIC INSULATION MATERIALS INDUSTRIES L.L.C.

DEFINING INDUSTRIAL SOLUTIONS





INTRODUCTION

ASTIC INSULATION MATERIALS INDUSTRIES LLC (AIMI) is registered as a Limited Liability Company setup in 2012 in DIP / 2, Dubai, UAE, to be conditioned under the laws of Emirates of Dubai, U.A.E to provide quality and prompt service.

AIMI is a locally registered Industrial Company, listed by the Ministry of Industries under License No.666246 (copy attached). The company is setup in Dubai Investment Park and is engaged into the activity of Insulation Manufacturing especially PIR, PUF, Phenolic Foam, Foamglas, Calcium Silicate etc.

AIMI is specialized in manufacturing, fabrication, field fabrication and execution of insulation work. Preformed sections can be made available on all types of Rigid insulation for piping, fittings, flange & valves, boxes, vessels, equipments for Cellular Glass (FOAMGLAS® INSULATION) Polyisocyanurate Polyurethane (PIR/PUR), Phenolic Foam, Calcium Silicate which are widely used in Oil and Gas Industries, Petrochemical Industries, Power and Desalination plants and several other related industries. The same can be used for Commercial Buildings for district chillers, boilers piping and roofing where high specification is applied.

Above mentioned Insulation Materials are specified in the specifications for the above mentioned Industries and for projects in U.A.E. and all the Gulf countries, which led us to start our own production unit, with our own expertise specialist to meet the highest standard & market demands. AIMI is an approved source with the local Oil & Gas companies like Takreer Gasco, Borouge, DEWA, ADEWA & Dubai Municipality Central Laboratory.

We adhere to the highest standards by sourcing raw materials from globally well-known manufacturers such as Pittsburgh Corning for Foamglass and BASF, DOWCHEMICAL for Polyisocyanurate and Polyurethane.

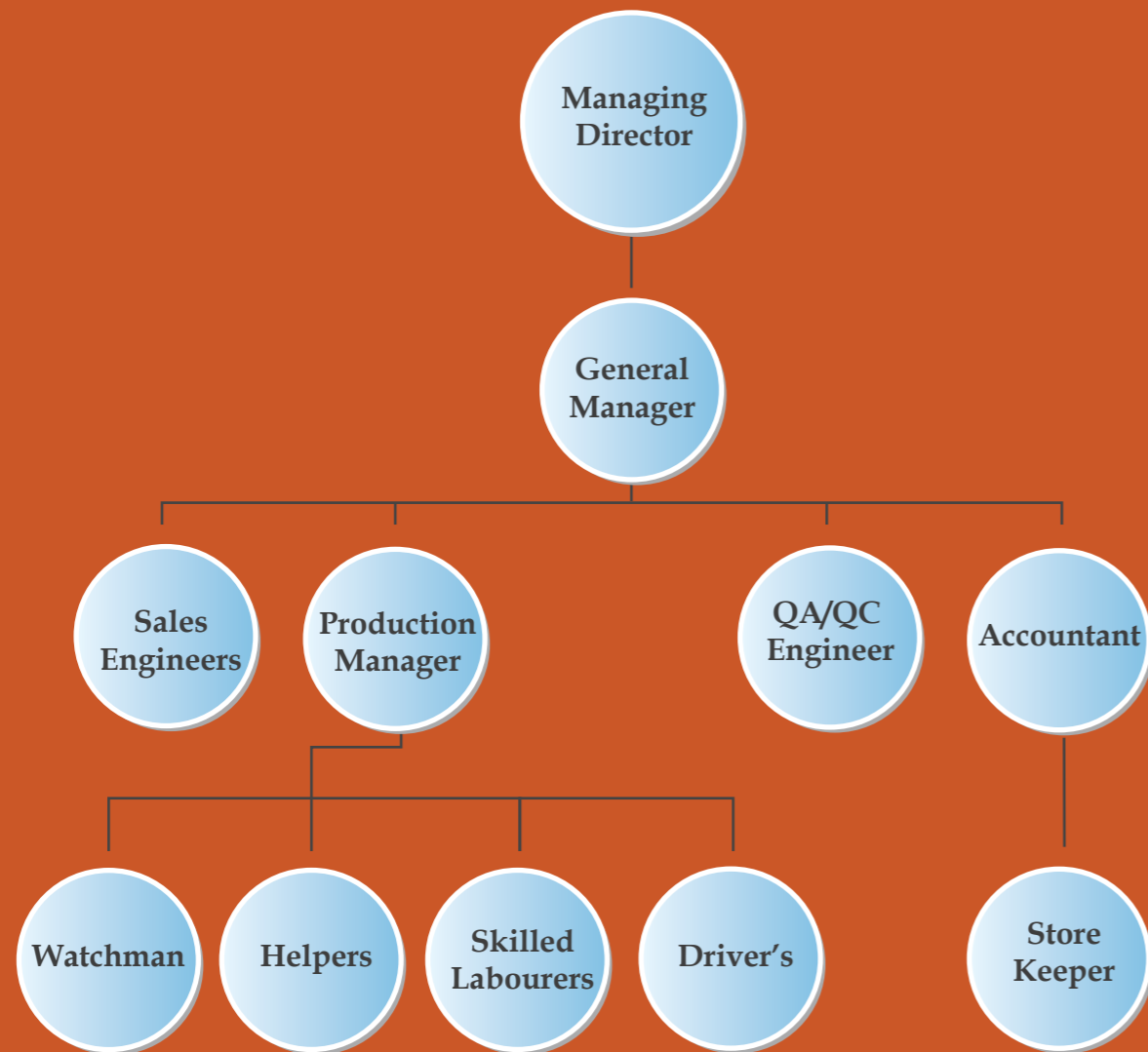
Our factory is equipped with the most up to date automated machines to make available insulation for Piping, Fittings, Elbows, Flanges, Valve Boxes and metal jacketing. Our main advantage is having a local facility in Dubai & capability to handle quick delivery to the Gulf region & Middle East with economical cost and can issue a GCC Certificate as local Manufacturer.





PRODUCTS OVERVIEW

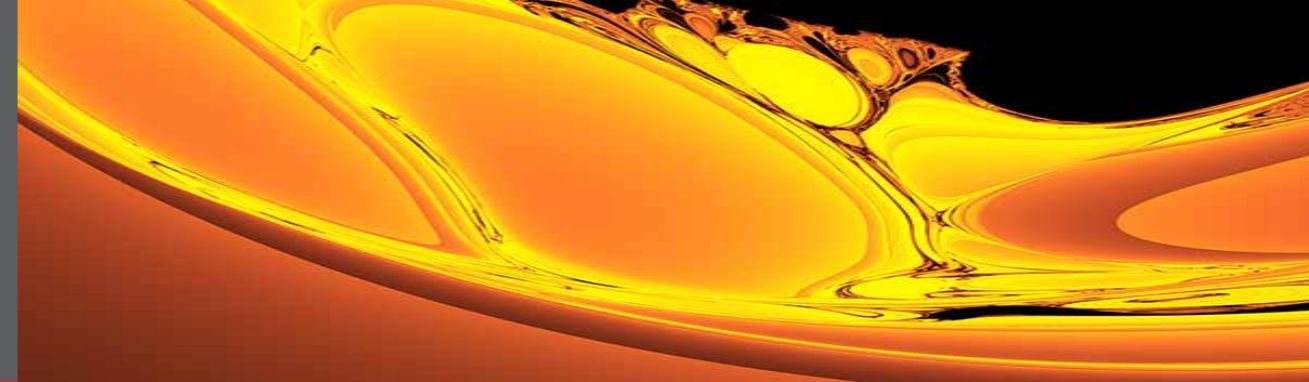
COMPANY STRUCTURE



Our current workforce strength is 150 employees and growing

- > FOAMGLAS®
- > ALFA PIR POLYISOCYANURATE FOAM
- > ALFAPHEN
- > CALCIUM SILICATE
- > ROCKWOOL
- > CERAMIC BLANKET
- > FIBERGLASS INSULATIONS
- > JACKETING
- > HARD ACCESSORIES
- > WET ACCESSORIES





ALFAPHEN PHENOLIC FOAM INSULATION

ALFAPHEN PHENOLIC FOAM based on phenolic resin has outstanding fire characteristics and extremely low smoke emissions when exposed to a flame source, The exceptionally high level of closed cells and the fine cell structure gives the product excellent thermal and water vapour resistant properties. Closed cell phenolic foams are the most thermally efficient insulation materials commercially available.

ALFAPHEN PHENOLIC FOAM is manufactured in a number of forms including blocks, continuously produced flexible faced laminate, rigid faced laminates and composite panels in addition to highly specialized applications.

ADVANTAGES

- > Externely low thermal conductivity of 0.018
- > Excellent fire resistance "class O"
- > Negligible smoke emission
- > Environmentally friendly
- > Non-Fibrous
- > Water vapour resistant



ALFAPHEN PHENOLIC FOAM INSULATION

PIPE COVER

Type P101 (Ø up to 356 mm)



Butt Jointed

Type P201 (Ø >356 mm)



Butt Jointed

Type P101A (Ø up to 356 mm)



Longitudinal Shiplapped joints

Type P201A (Ø >356 mm)



Longitudinal Shiplapped joints

Type P101C (Ø up to 356 mm)



Longitudinal + circumferential Shiplapped joints

Type P201C (Ø >356 mm)



Longitudinal + circumferential Shiplapped joints



Butt jointed

Shiplapped joints

1 side grooved



2 sides grooved

Single slotted

Double slotted

Blocks

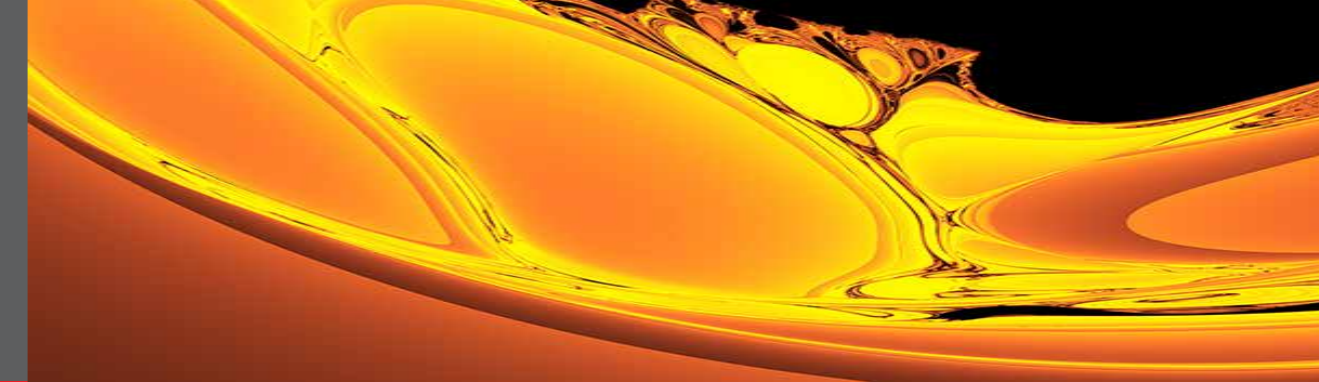


Untrimmed

Trimmed gross

Trimmed net

SHEETS



ALFAPHEN PHENOLIC FOAM INSULATION

ALFAPHEN PHENOLIC FOAM INSULATION

TECHNICAL PROPERTIES ALFAPHEN - 40KG/M3

PROPERTIES	TEST METHOD	DIM.	PROPERTIES
Temperature		Max °C	120
Density	ASTM D 1622	Kg/m ³	40 +/-5
Thermal Conductivity	ASTM C 177	W/mk	0.018
Closed Cell Content	ASTM D 2856 Proc A	%	>=90
Compressive Strength	Din 53421 ASTM D 1621	kPa//	200+/-40
Tensile Strength	Din 53430 ASTM D 1623	kPa// kPa	200 + /-40 150 +/-40
Lin. Expansipon Coeff.	BS 4370	10 ⁻⁶ mm/mmk	50-80
Dim. Stability	ISO/DIS 2796 ASTM D 2126		
Length	24H +93°C	Max. %	+1.0
Width		Max %	+1.0
Thickness	Proc H	mm.	+/- 0.5
Length	24H-30 °C	Max. %	+1.0
Width		Max %	+1.0
Thickness	Proc E	mm.	+/- 0.5
Length	48H +70°C	Max. %	+2.0
Width	95% R.H.	Max %	+2.0
Thickness	Proc C	mm.	+/- 0.5
Water Absorption	ISO/DS 2896 ASTM D 2842	Max %	+5
Water VApour Transmission	ISO R 1663 ASTM E-96 230C 85% R.H.	g/m ² 24H	30 +/-10
Friability	ASTM C421	2' -% 10' -%	
Fire Properties	ASTM D 1692 ISO 3582 BS 4735 NF 92-501 ASTM D 3014 DIN 4102 BS 476 Part 5 BS 476 Part 6 BS 476Part 7 ASTM E 84 F.S.I BS 5111 (Part 1) BS 5946	Max. mm. Max. sec.	10/10 SE 10/10 NB 0 0 M1 >=85 B1 P 0 Class 1 =< 25 <5 Non punking

TECHNICAL PROPERTIES ALFAPHEN-80KG/M3

PROPERTIES	TEST METHOD	DIM.	PROPERTIES
Temperature		Max °C	120
Density	ASTM D 1622	Kg/m ³	80 +/-5
Thermal Conductivity	ASTM C 177	W/mk	0.030
Closed Cell Content	ASTM D 2856 Proc A	%	>=90
Compressive Strength	Din 53421 ASTM D 1621	kPa// kPa//	650 +/-50 500 +/- 50
Tensile Strength	Din 53430 ASTM D 1623	kPa// kPa	580 + /-50 410 +/-50
Lin. Expansipon Coeff.	BS 4370	10 ⁻⁶ mm/mmk	40-70
Dim. Stability	ISO/DIS 2796 ASTM D 2126		
Length	24H +93 °C	Max. %	+1.0
Width		Max %	+1.00
Thickness	Proc H	mm.	+/- 0.5
Length	24H -30°C	Max. %	-1.00
Width		Max %	-1.00
Thickness	Proc E	mm.	+/- 0.5
Length	48H +70°C	Max. %	+2.00
Width	95% R.H.	Max %	+2.00
Thickness	Proc C	mm.	+/- 0.5
Water Absorption	ISO/DS 2896 ASTM D 2842	Max %	+5
Water VApour Transmission	ISO R 1663 ASTM E-96 230C 85% R.H.	g/m ² 24H	15 +/-5
Friability	ASTM C421	2' -% 10' -%	
Fire Properties	ASTM D 1692 ISO 3582 BS 4735 NF 92-501 ASTM D 3014 DIN 4102 BS 476 Part 5 BS 476 Part 6 BS 476Part 7 ASTM E 84 F.S.I BS 5111 (Part 1) BS 5946	Max. mm. Max. sec.	10/10 SE 10/10 NB 0 0 M1 >=85 B1 P 0 Class 1 =< 25 <5 Non punking

ALFAPHEN PHENOLIC FOAM INSULATION

TECHNICAL PROPERTIES

ALFAPHEN - 120KG/M3

PROPERTIES	TEST METHOD	DIM.	PROPERTIES
Temperature		Max °C	120
Density	ASTM D 1622	Kg/m ³	120 +/-7
Thermal Conductivity	ASTM C 177	W/mk	0.033
Closed Cell Content	ASTM D 2856 Proc A	%	>=90
Compressive Strength	Din 53421	kPa//	1200+/-60
	ASTM D 1621	kPa//	100 +/-60
Tensile Strength	Din 53430	kPa//	900 + /-60
	ASTM D 1623	kPa	700 +/-60
Lin. Expansipon Coeff.	BS 4370	10 ⁻⁶ mm/mmk	40-70
Dim. Stability	ISO/DIS 2796		
	ASTM D 2126		
Length	24H +93°C	Max. %	+1.0
Width		Max %	+1.0
Thickness	Proc H	mm.	+/- 0.5
Length	24H-30 °C	Max. %	-1.0
Width		Max %	-1.0
Thickness	Proc E	mm.	+/- 0.5
Length	48H +70°C	Max. %	+1.5
Width	95% R.H.	Max %	+1.5
Thickness	Proc C	mm.	+/- 0.5
Water Absorption	ISO/DS 2896 ASTM D 2842	Max %	+5
Water VApour Transmission	ISO R 1663 ASTM E-96 230C 85% R.H.	g/m ² 24H	15 +/-5
Friability	ASTM C421	2' -%	
		10' -%	
CTSR			
Fire Properties	ASTM D 1692	Max. mm. Max. sec.	10/10 SE
	ISO 3582		10/10 NB
	BS 4735		0
			0
	NF 92-501		M1
	ASTM D 3014		>=85
	DIN 4102		B1
	BS 476 Part 5		P
	BS 476 Part 6		0
	BS 476Part 7		Class 1
	ASTM E 84 F.S.I		=< 25
	BS 5111 (Part 1)		<5
BS 5946	Non punking		