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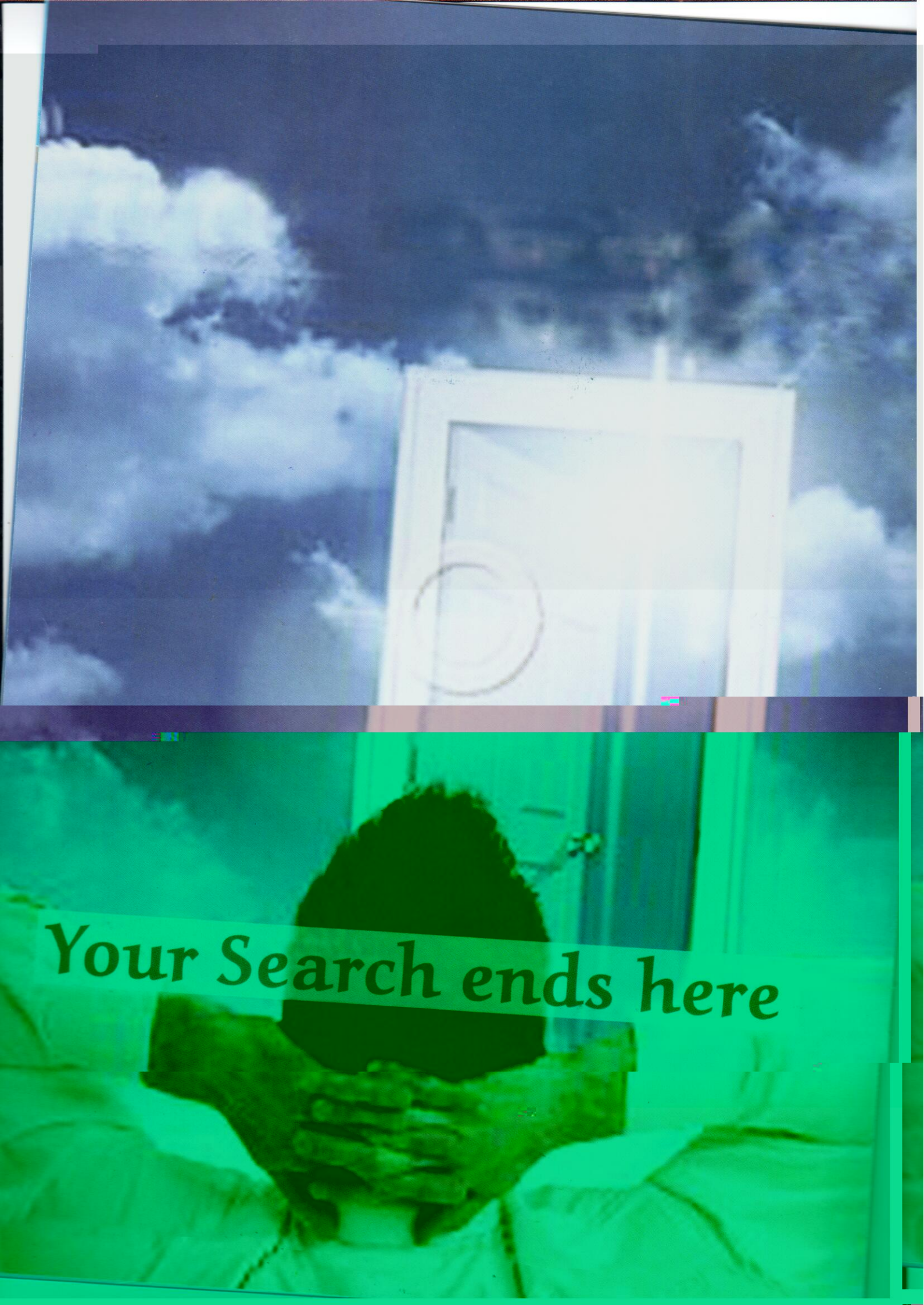
PEARL INDUSTRIES L.L.C.

PI-NBR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PI - NBR

PI-NBR is a flexible thermal insulation material made from closed cell polyolefin foam it's quick and easy to install and available as pipes, sheets and rolls in a wide range of sizes. It's dust free and CFC free with an Ozone depletion potential of zero, which means an environmentally friendly product.

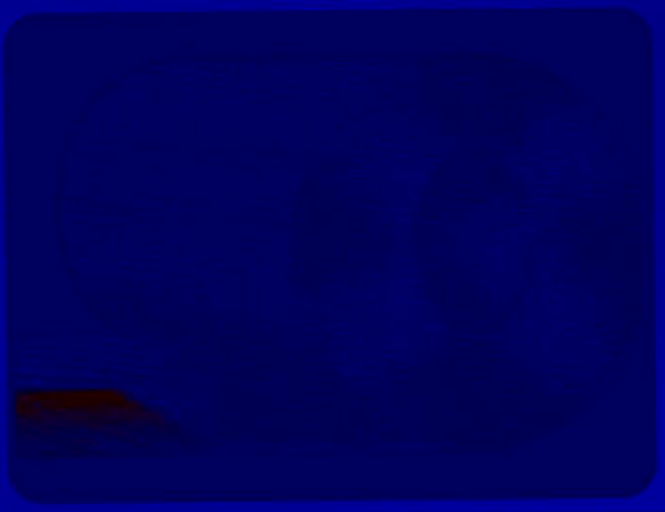
PI-NBR is light, flex and has excellent property of isolation (Thermal & acoustic) It has easy handling characteristics (packing, storage, transportation) cutting and is incorrigible.

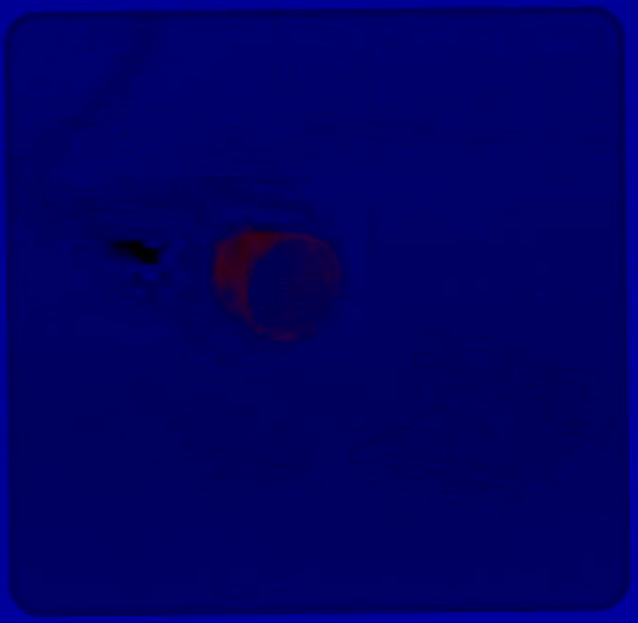
DEW, BUILD UP OF BACTERIA AND FUNGUS PREVENTION

Closed cell structure of our product has improved its properties compared to other insulation products such as rubber-based; wool-glass, fiber-glass etc. It has very low thermal conductivity and negligible water absorption. The closed cell structure not only presents consistent heat insulating properties but also it prevents build up of bacterial contamination and formation of fungus and dew.

EASY INSTALLATION

It's capability of easy fabrication and close adhesion to duct makes it an excellent choice for any shape of duct insulation . PI-NBR Does not emit dust or fiber particles during installation, no special tools precautions (face, mask, or gloves) are required during installation.





THERMAL CONDUCTIVITY

UL 723 Classification I Certification

PI-NBR Tested by Underwriters Laboratories according to ASTM E-84. It complies with the requirements of UL 723.

ALUMINUM FOIL SURFACE LAMINATION

The exterior aluminum foil Embossed surface lamination keeps air gaps between foam and Foil decreasing thermal conductivity (λ) and improves fireproof performances, reinforced Foil with Polyethylene film , gives another advantage for mechanical loads tension for foam surface preventing cracks for long time usage and protection of weather condition variability, Aluminum foil surface coating with Low density Polyethylene coat increase it's resistance against weather conditions improves fireproof performances, no any need to paint PI-NBR surface or to install a barrier against weather condition, Ozone and vapor condensation.

SELF ADHESIVE SURFACE COATING

PI-NBR Backside is coated with Acrylic heat-treated self adhesive, Specially produced for bonding P.E, P.U Foam recommended under condition where high bonding power and no mechanical fastening are needed it provides aggressive tack and a high shear strength to bond quickly and provides long time term holding power, this adhesive has excellent characteristics for all elevated temperature resistance, High adhesion strength, high heat resistance and excellent preservation power. High adhesive power and speed dry, it's applied directly to foam surface. Increasing capability of easy fabrication and close adhesion to duct surface makes it an excellent choice for any shape of duct insulation.

APPLICATIONS

CHILLED WATER AND OTHER PIPE INSULATION.

TECHNICAL SPECIFICATIONS

Material	Closed Cell Cross Linked Polyolefin Foam
Color	Black
Density	50.1 Kg/m3
Working Temperature	-80 To 120 ° C
Gas Emission	None
Aging Resistance	Very Good
Water vapour Permeability ASTM D 570	0.030 gm/Nh
Thermal Conductivity (λ) ASTM C518 @ Mean Temp 0° C	0.032 W/mk
Thermal Conductivity (λ) ASTM C518 @ Mean Temp 40 C	0.036 W/mk
Anti Bacterial ASTM G 22-96	Rating : No Growth (0)
Anti Microbial (Anti Fungal) ASTM C 1338-08	Rating: No Growth (0)

Fire Rating

UL 723- ASTM E84-	Class 1 (A)	Classified by UL Underwriters Laboratories Inc - USA
BS 476 Part 6:1989 Fire Propagation	Class (0)	Tested By Warringtonfire - Global Safety - UK
BS 476 Part 7:1997 Surface Spred of Flame	Class 1	
Fire Safety Compliance with BS Regulation 2000		Class (0)

PRODUCTION RANGE

Duct, Pipe insulation & Acoustic Lagging

TYPE	THICK. (m.m.)	WIDTH (mm.)
Duct insulation		
PIN 9P	**9**	**1000**
PIN 13P	**14**	**1000**
PIN 19P	**19**	**1000**
PIN 25P	25	1000
PIN 9PA	9	1000
PIN 13PA	14	1000
PIN 19PA	19	1000
PIN 25PA	25	1000
PIN 9PAA	9	1000
PIN 13PAA	14	1000
PIN 19PAA	19	1000
PIN 25PAA	25	1000

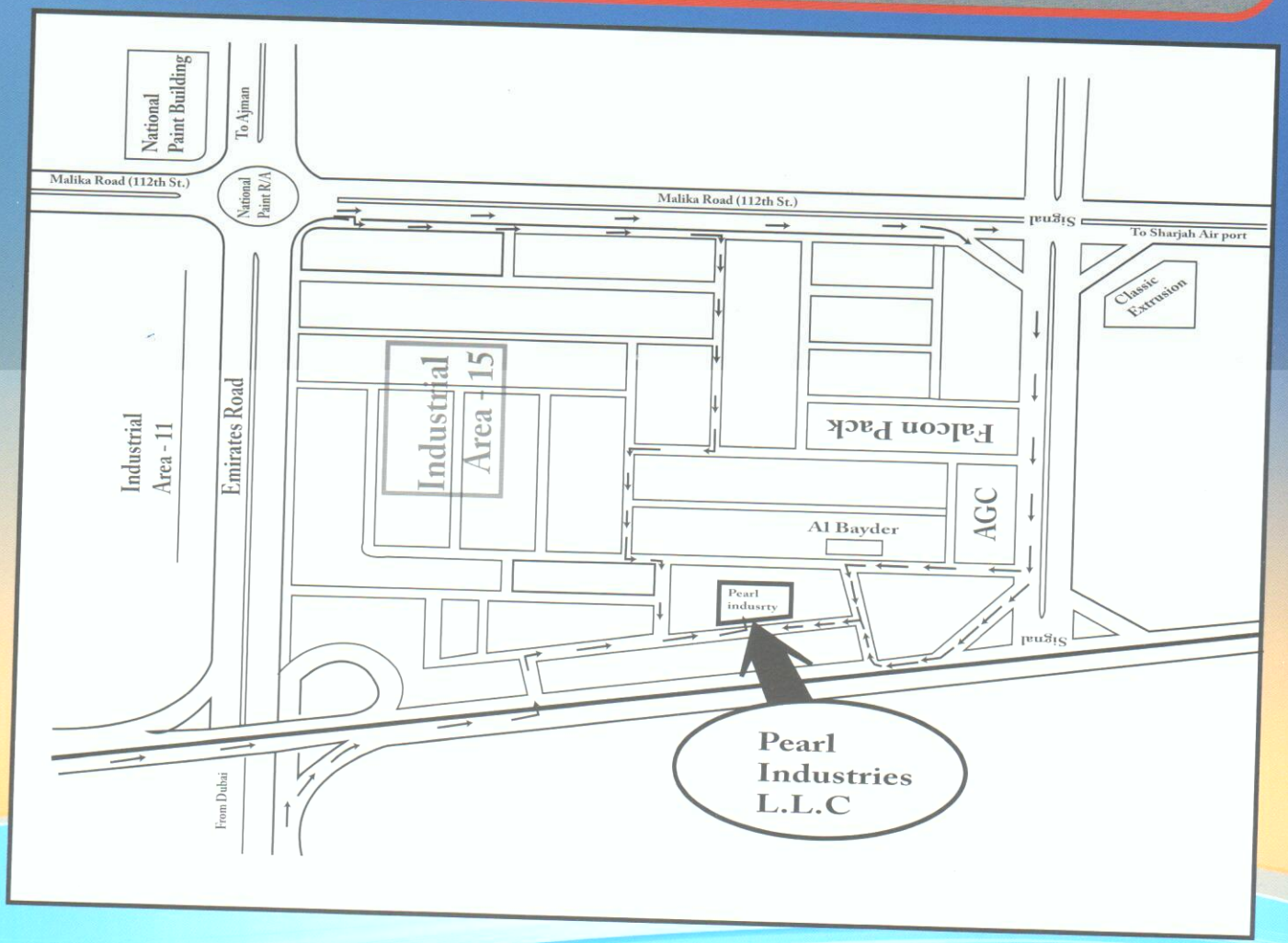
Copper tube		Plastic, Iron & Steel Pipe	
Nom OD mm	Nom OD mm	Nom OD mm	Nom OD Inch
	1/4	13	1/2
	5/16	18	3/4
10	3/8	25	1
12	1/2	42	1 1/4
15	5/8	48	1 1/2
18	3/4	50	2
22	7/8	80	3
28	1 1/8	100	4

Remarks:

-Outer surface for all materials can have embossed Laminated Aluminum Foil

-All Pipe Insulation Sizes and Thickness Supplied in PRE-Formed Round Sections

-Other Sizes And Thicknesses Are Available On Request.



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