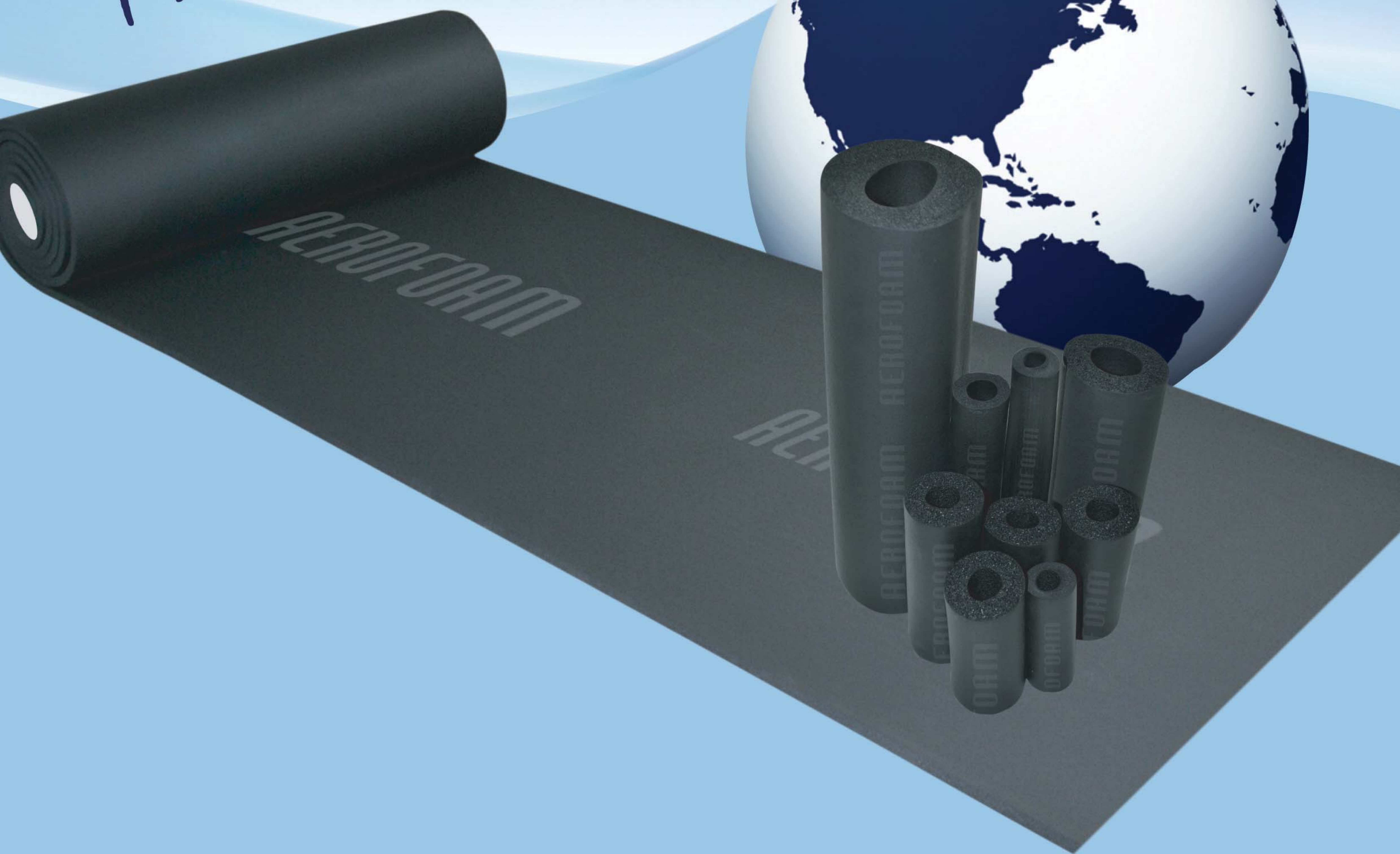


# AEROFOAM-NBR

*The Environment  
Friendly Insulation*



**Flexible, Light-Weight, Nitrile Foam for Quality Insulation for refrigeration, air conditioning and other applications.**

# AEROFOAM NBR- MAIN FEATURES

**Aerofoam NBR** is a flexible light-weight nitrile foam suitable for thermal insulation. The product is available in tubing or sheet form and mainly comes in black color (other colours are also available).

The extruded flexible tubing is designed to fit the standard diameters of steel and copper pipings. Sheets are available in pre-cut size or in rolls.



## Low thermal Conductivity

The closed cell structure of Aerofoam NBR results in a very low thermal conductivity.

## No Flame Spread

**Aerofoam NBR** is rated Class 1 as per ASTM E 84 tests for spread of fire and smoke.

**Aerofoam NBR** achieves a rating of Class 1 when tested as per BS 476, Part 7.

**Aerofoam NBR** is also classified as a Class O product as per BS 476, Part 6

## High Water Vapour Diffusion Resistance

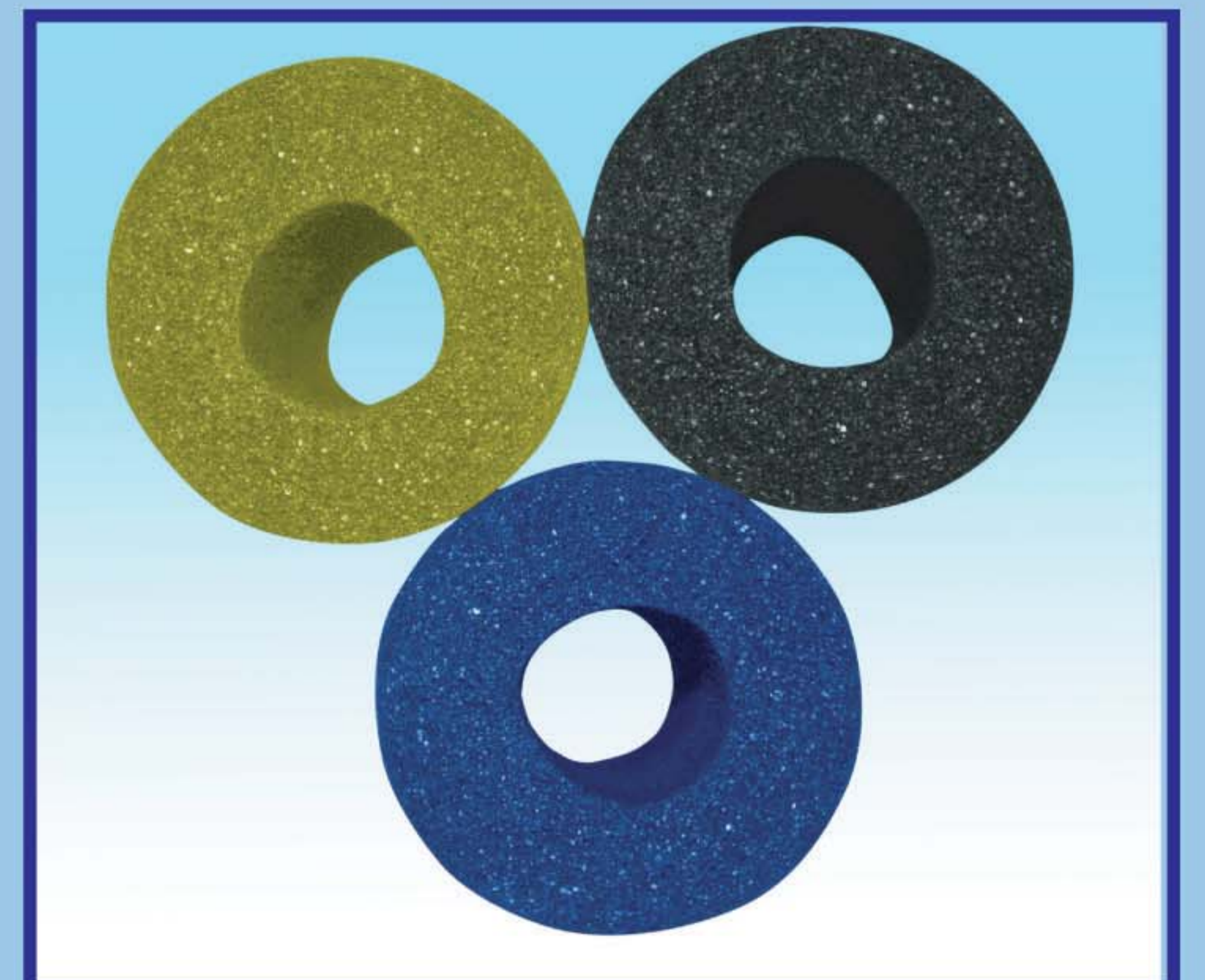
**Aerofoam NBR** is compounded to achieve a high water vapour diffusion resistance of more than 7000 ensuring long service life.

## Environmental Friendly

**Aerofoam NBR** is CFC . HCFC free and has Zero Ozone Depleting potential.

## Ease Of installation

The flexible construction of **Aerofoam NBR** makes the product extremely safe and easy to install on both pipe lines and ducting.



## SIZE & PACKING DETAILS - TUBES

Nominal Insulation Size ID		Copper Pipe Nominal Size OD		Steel Pipe Nominal Size IPS		Nominal 6mm wall (1/4")		Nominal 9mm wall (3/8")		Nominal 13mm wall (1/2")		Nominal 19mm wall (3/4")		Nominal 25mm wall (1")		Nominal 32mm wall (1 1/4")	
Inches	mm	Inches	mm	Inches	mm	Mtrs/Box	Pcs/Box	Mtrs/Box	Pcs/Box	Mtrs/Box	Pcs/Box	Mtrs/Box	Pcs/Box	Mtrs/Box	Pcs/Box	Mtrs/Box	Pcs/Box
1/4"	6	1/4"	6			324	180	302.4	168	162	90	90	50	63	35	54	30
3/8"	9	3/8"	9			306	170	234	130	144	80	72	40	45	25	45	25
1/2"	13	1/2"	13	1/4"	6	270	150	207	115	117	65	72	40	45	25	36	20
5/8"	16	5/8"	16	3/8"	10	216	120	162	90	108	60	63	35	45	25	36	20
3/4"	19	3/4"	19			180	100	136.8	76	81	45	54	30	36	20	27	15
7/8"	22	7/8"	22	1/2"	13	162	90	126	70	72	40	54	30	36	20	27	15
1"	25	1"	25			144	80	99	55	72	40	45	25	36	20	27	15
1 1/8"	28	1 1/8"	28	3/4"	19	126	70	99	55	64.8	36	45	25	32.4	18	27	15
1 1/4"	32	1 1/4"	32					72	40	54	30	36	20	27	15	27	15
1 3/8"	35	1 3/8"	35	1"	25	108	60	64.8	36	54	30	36	20	27	15	21.6	12
1 1/2"	38	1 1/2"	38							43.2	24	30.6	17	21.6	12	21.6	12
1 5/8"	42	1 5/8"	42	1 1/4"	32			54	30	45	25	30.6	17	21.6	12	18	10
1 7/8"	48	1 7/8"	48	1 1/2"	38			45	25	36	20	27	15	18	10	18	10
2"	51	2"	51							36	20	27	15	16.2	9	16.2	9
2 1/8"	54	2 1/8"	54					45	25	36	20	27	15	16.2	9	16.2	9
2 3/8"	60	2 3/8"	60	2"	51			36	20	32.4	18	21.6	12	16.2	9	10.8	6
2 5/8"	67	2 5/8"	67							27	15	18	10	14.4	8	10.8	6
2 7/8"	73	2 7/8"	73							27	15	18	10	10.8	6	7.2	4
3"	76	3"	76							21.6	12	18	10	10.8	6	7.2	4
3 1/8"	79	3 1/8"	79							21.6	12	18	10	10.8	6	7.2	4
3 1/2"	89	3 1/2"	89	3"	75					18	10	14.4	8	10.8	6	7.2	4

Standard Pipe Section Length = 6 feet (1.80 meters)  
Tolerance: Thickness: + \_ 1-1.5mm , Length: + - 0.03 mtrs

## SIZE & PACKING DETAILS - ROLLS

Model	Thickness		Rolls - 1 metre Wide	
	Inches	mm	Size	Sq mtr/Roll
AFR 06	1/4"	6	6 x 1 x 30	30
AFR 09	3/8"	9	9 x 1 x 20	20
AFR 13	1/2"	13	13 x 1 x 14	14
AFR 16	5/8"	16	16 x 1 x 12	12
AFR 19	3/4"	19	19 x 1 x 10	10
AFR 25	1"	25	25 x 1 x 8	8
AFR 32	1 1/4"	32	32 x 1 x 6	6
AFR 40	1 1/2"	40	40 x 1 x 4	4
AFR 50	2"	50	50 x 1 x 4	4

Tolerance: Thickness ± 1-1.5mm, Length : ± 0.02 mtrs



## SIZE & PACKING DETAILS - SHEETS

Model	Thickness mm	Sheets Size mtr x mtr	Sheet Per Box		Qty Sq.mtr / Box
			Nos		
AFS 10	10	1x1	18		18
AFS 15	15	1x1	12		12
AFS 20	20	1x1	9		9
AFS 25	25	1x1	7		7

Tolerance: Thickness ± 2mm, Length : ± 0.01 mtrs

# AEROFOAM NBR- ACCESSORIES

## Self Adhesive Tapes

Closed Cell NBR foam with aggressive adhesive used to seal joints

Thickness	Width	Length	Rolls per box
3 mm	50 mm	25 feet	40
3 mm	25 mm	25 feet	80

## PVC Tape

High tensile strength self adhesive PVC tapes

Thickness	Width	Length	Rolls per box
0.13mm	50 mm	90 feet	60

## Adhesive

High tack Adhesive to fix insulation to ductwork and to seal joints of tubing

Volume/Can	No. of Cans / Box
5ltr	4
2.5ltr	8

## UV Paint

Ultra Violet paint to be applied on Aerofoam exposed to outdoor conditions



# TECHNICAL SPECIFICATIONS

Properties	Ratings	Test Methods
Cellular Structure	Closed Cell	-
Density (KG/M <sup>3</sup> )	60-70	ASTM D 1667
Thermal Conductivity		ASTM C 518:2010
@ Mean Temp. 20°C	0.035 W/m°C	
@ Mean Temp. 40°C	0.037 W/m°C	
Temperature Limits °C	- 40°C to + 105°C	-
Thermal Stability	4.5(7 days @)200	ASTM C534
Fire Resistance	Class O	BS 476 Part 6
	Class 1	BS 476 Part 7
Water Absorption (% W/W)	3.85	ASTM C 209 :1998
Water Vapor Permeability-Perms	0.1 perms-inch max	ASTM E96
Smoke & Toxicity( IMO MSC 61(67) 1996	Passed	ISO 5659
Weather & UV Resistance	Excellent	ASTM G 53-1996
Ozone Resistance	Excellent	ASTM D 1171
Mildew Resistance	No Fungal Growth	ASTM G 21-1980
Chemical Resistance	Good	-
Odour	Negligible	-
Flexibility	Excellent	-
Production Process	W/O CFC, Asbestos, Chlorine, & Fibre	-

# THICKNESS RECOMMENDATIONS

## Thickness Recommendations to control Condensation in Cooling Lines

Design Condition	Pipe Size	Pipe Line Temperature			
		14 deg C	7 deg C	2.5 deg C	-18 deg C
Mild Condition 26 deg C , 50 % RH	Upto 76mm	9mm	9mm	9mm	19mm
	Above 76mm to 127mm	9mm	13mm	13mm	25mm
	Above 127mm	13mm	13mm	13mm	25mm
Normal Condition 30 Deg C , 70 % RH	Upto 76mm	9mm	13mm	13mm	25mm
	Above 76mm to 127mm	13mm	13mm	13mm	32mm
	Above 127mm	13mm	13mm	19mm	32mm
Severe Condition 32 deg C , 80 % RH	Upto 76mm	13mm	19mm	19mm	38mm
	Above 76mm to 127mm	13mm	25mm	25mm	38mm
	Above 127mm	13mm	25mm	31mm	50mm
Extremely Severe Condition 32 deg C , 85 % RH	Upto 76mm	13mm	25mm	25mm	38mm
	Above 76mm to 127mm	19mm	32mm	32mm	50mm
	Above 127mm	25mm	32mm	38mm	50mm

## Thickness Recommendations for Insulation of Ducting

Design Condition	Internal Temperature in Ducting				
	15 deg C	12 deg C	7 deg C	2.5 deg C	-18 deg C
Mild Condition 26 deg C , 50 % RH	9mm	9mm	13mm	19mm	25mm
Normal Condition 30 Deg C , 70 % RH	13mm	13mm	19mm	25mm	32mm
Severe Condition 32 deg C , 80 % RH	13mm	19mm	25mm	32mm	50mm
Extremely Severe Condition	25mm	25mm	32mm	38mm	50mm

# SITE APPLICATIONS



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