

AEROFOAM[®] NBR

FLEXIBLE CLOSED CELL ELASTOMERIC FOAM



ASTM E84

CLASS 0



FEATURES OF AEROFOAM® ELASTOMERIC FOAM INSULATION



VERY FLEXIBLE FOAM
INSULATION

NOISE CONTROL
PROPERTIES

LOW VOC LEVEL; LOW
ODP & GWP VALUES

LOW THERMAL CONDUCTIVITY

AEROFOAM® NBR is a closed cell foam. This keeps Lambda (λ) value on a low level which leads to a very stable thermal performance.

HIGH WATER VAPOR DIFFUSION RESISTANCE

AEROFOAM® NBR has very high resistance for water vapor transmission thanks to its closed cell structure. It is one of the main properties of this flexible foam. This property gives a chance for applications in the lowest temperature range.

FIRE RESISTANCE

AEROFOAM® NBR is rated 25 (FSI) and 30 (SDI) according to ASTM E84. AEROFOAM® NBR is rated Class 0 as per BS 476. Low smoke density makes it a safer option.

ENVIRONMENT FRIENDLY

AEROFOAM® NBR is CFC & HCFC free, dust free and resistant to mould and fungi growth. It has very low ODP (Ozone Depletion Potential) and GWP (Global Warming Potential).

EASE OF INSTALLATION

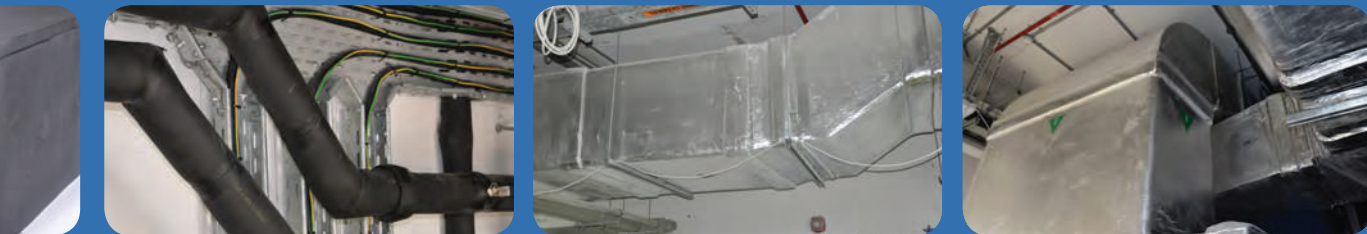
AEROFOAM® NBR is quick and easy to install on any shape due to its high flexibility, dimensional stability and smooth surface. It can be applied on pipes, ducts and tanks.



NO NEED
ADDITIONAL
VAPOR BARRIER

VERY SECURE JOINTS
WHEN THE AEROFOAM
NBR GLUE IS USED

VERY GOOD THERMAL
PERFORMANCE



AEROFOAM® NBR TUBES - SIZE RANGE

			1/4" - 6 mm		3/8" - 9 mm		1/2" - 13mm		3/4" - 19 mm		1" - 25 mm		1 1/4" - 32 mm			
No.	Inch	mm	PC/Box	NBR Code	PC/Box	NBR Code	PC/Box	NBR Code	PC /Box	NBR Code	PC /Box	NBR Code	PC /Box	NBR Code		
1	1/4"	6	180	NBRT0606	168	NBRT0906	90	NBRT1306	50	NBRT1906	35	NBRT2506	20	NBRT3206		
2	3/8"	9	170	NBRT0609	130	NBRT0909	80	NBRT1309	40	NBRT1909	25	NBRT2509	20	NBRT3209		
3	1/2"	13	150	NBRT0613	115	NBRT0913	65	NBRT1313	40	NBRT1913	25	NBRT2513	20	NBRT3213		
4	5/8"	16	120	NBRT0616	90	NBRT0916	60	NBRT1316	35	NBRT1916	25	NBRT2516	15	NBRT3216		
5	3/4"	19	100	NBRT0619	76	NBRT0919	45	NBRT1319	30	NBRT1919	20	NBRT2519	15	NBRT3219		
6	7/8"	22	90	NBRT0622	70	NBRT0922	40	NBRT1322	30	NBRT1922	20	NBRT2522	12	NBRT3222		
7	1"	25	70	NBRT0625	55	NBRT0925	40	NBRT1325	25	NBRT1925	20	NBRT2525	12	NBRT3225		
8	1-1/8"	28	70	NBRT0628	55	NBRT0928	36	NBRT1328	25	NBRT1928	18	NBRT2528	12	NBRT3228		
9	1-1/4"	32	65	NBRT0632	40	NBRT0932	30	NBRT1332	20	NBRT1932	15	NBRT2532	12	NBRT3232		
10	1-3/8"	35	60	NBRT0635	36	NBRT0935	30	NBRT1335	20	NBRT1935	15	NBRT2535	12	NBRT3235		
11	1-1/2"	38				36	NBRT0938	25	NBRT1338	17	NBRT1938	12	NBRT2538	10	NBRT3238	
12	1-5/8"	42				30	NBRT0942	25	NBRT1342	17	NBRT1942	12	NBRT2542	10	NBRT3242	
13	1-7/8"	48				25	NBRT0948	20	NBRT1348	15	NBRT1948	10	NBRT2548	8	NBRT3248	
14	2"	51				25	NBRT0951	20	NBRT1351	15	NBRT1951	9	NBRT2551	8	NBRT3251	
15	2-1/8"	54				25	NBRT0954	20	NBRT1354	15	NBRT1954	9	NBRT2554	8	NBRT3254	
16	2-3/8"	60				20	NBRT0960	18	NBRT1360	12	NBRT1960	9	NBRT2560	6	NBRT3260	
17	2-1/2"	63				Tube Tolerance Length: ± 1.5% ID ≤6mm: ±1mm9-18mm: ±1.5mm9-13mm: ±2.5mm≥32mm: ±3.0mm			18	NBRT1363	12	NBRT1963	8	NBRT2563	6	NBRT3263
18	2-5/8"	67							15	NBRT1367	10	NBRT1967	8	NBRT2567	5	NBRT3267
19	2-7/8"	73							15	NBRT1373	10	NBRT1973	6	NBRT2573	4	NBRT3273
20	3"	76							12	NBRT1376	10	NBRT1976	6	NBRT2576	4	NBRT3276
21	3-1/8"	79							12	NBRT1379	10	NBRT1979	6	NBRT2579	4	NBRT3279
22	3-1/2"	89	Thickness ≤6mm: ±1mm9-18mm: ±1.5mm9-13mm: ±2.5mm≥32mm: ±3.0mm			10	NBRT1389	8	NBRT1989	6	NBRT2589	4	NBRT3289			
23	3-5/8"	92				10	NBRT1392	6	NBRT1992	6	NBRT2592	4	NBRT3292			
24	4"	102				8	NBRT13102	6	NBRT19102	4	NBRT25102	3	NBRT32102			
25	4-1/8"	105				8	NBRT13105	6	NBRT19105	4	NBRT25105	3	NBRT32105			
26	4-1/4"	110				8	NBRT13110	6	NBRT19110	3	NBRT25110	3	NBRT32110			
27	4-1/2"	114				6	NBRT13114	6	NBRT19114	3	NBRT25114	3	NBRT32114			

Thickness: 1.8±0.03m

AEROFOAM® NBR ROLLS - SIZE RANGE

Thickness (inch)	Thickness (mm)	Width x length (m x m)	Type				
			Plain	Self Adhesive (SA)	With Aluglass Foil (AL)	Self Adhesive with Aluglass foil (SA-AL)	With CLAD
1/4"	6	1x 30	NBRR06-1-30	NBRR06-1-30SA	NBRR06-1-30AL	NBRR06-1-30SA-AL	NBRR06-1-30CL
3/8"	9	1x20	NBRR09-1-20	NBRR09-1-20SA	NBRR09-1-20AL	NBRR09-1-20SA-AL	NBRR09-1-20CL
1/2"	13	1x14	NBRR13-1-14	NBRR13-1-14SA	NBRR13-1-14AL	NBRR13-1-14SA-AL	NBRR13-1-14CL
5/8"	16	1x12	NBRR16-1-12	NBRR16-1-12SA	NBRR16-1-12AL	NBRR16-1-12SA-AL	NBRR16-1-12CL
3/4"	19	1x10	NBRR19-1-10	NBRR19-1-10SA	NBRR19-1-10AL	NBRR19-1-10SA-AL	NBRR19-1-10CL
1"	25	1x8	NBRR25-1-08	NBRR25-1-08SA	NBRR25-1-08AL	NBRR25-1-08SA-AL	NBRR25-1-08CL
1-1/4"	32	1x6	NBRR32-1-06	NBRR32-1-06SA	NBRR32-1-06AL	NBRR32-1-06SA-AL	NBRR32-1-06CL
1-1/2"	40	1x4	NBRR40-1-04	NBRR40-1-04SA	NBRR40-1-04AL	NBRR40-1-04SA-AL	NBRR40-1-04CL
2"	50	1x4	NBRR50-1-04	NBRR50-1-04SA	NBRR50-1-04AL		

Tolerance Sheets: 6-25mm ±2mm (thickness); ±10mm (length)

32 - 50mm ± 3mm (thickness); ±10mm (length)

Width: ± [-20mm+40mm]

ACCESSORIES	Unit
NBR foam tape 3mm/ 9.1m/ 50mm	roll
Aluglass tape 50mm	roll
AEROFOAM NBR Glue 2.5l	litre
AEROFOAM finish UV paint	gallon



TECHNICAL DATA

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

Material: Flexible elastomeric foam with density between 40-70 kg/m³.

Self-adhesive coating: Pressure-sensitive adhesive coating covered with PE foil.

Applications: Thermal insulation/ protection for pipes, air ducts, (incl. elbows, fittings, flanges etc.) air-conditioning / refrigeration and process equipment to prevent condensation and save energy.

Property	Value/ Assessment	Tested acc. to:
Temperature range Max. line temperature Min. line temperature <i>Our Customer Service Center should be consulted for applications with temperatures below -50° C</i>	+105°C (flat surface and tape +85°C) -50° C (-200°C)	DIN EN 14706 : 2005 (E) ASTM C534 Type 1 & 2
Thermal conductivity λ [W/(m•K)] at 24°C	0.033	ASTM C518 : 2010
Water vapour diffusion resistance factor (μ)	17,000	BS EN 12086 : 1997
Water vapor permeance [perms]	0	ASTM E96
Water absorption [% by volume]	0.06	ASTM C209 : 1998
Reaction to fire	Class 0 FSI<25 and SDI<30	BS 476 Part 6 & 7 ASTM E 84
Smoke and toxicity	Passed	IMO MSC 61(67)
Acoustic insulation	Reduction of air-borne sound transmission; Insulation effect up to 27 dB(A)	DIN52219, DIN 4109 DIN EN ISO 3822-1
Compression set	31.23% (for 25mm) 29.83% (for 32mm)	ASTM D3574
Resistance to fungi	Passed	ASTM G21 : 2009
Resistance to bacteria	Passed	ISO 22196 : 2007
Emission (VOC level)	< 6 g/m ² /hr	ASTM D5116
Chemical analysis	PH - 7.3	ASTM C871
Environment friendly Ozone resistance Ozone Depletion Potential Global Warming Potential CFC & HCFC, dust, fibres & asbestos	Excellent 0 < 5 Free	
Storage life <i>Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0° C - 35° C)</i>	1 year for self-adhesive sheets/rolls, self-adhesive tapes	

Disclaimer: This information on Hira Industries products is presented to the best of our knowledge. All product data is based on average values and is for guidance only. As these products are subject to constant research and development, we reserve the right to update the contents without notice.

Manufactured by Hira Industries
 P.O. Box 50673, Dubai - UAE
 T: +971 4 884 8414

E: enquiry@rhira.com
 www.aerofoam.ae
 www.rhira.com



MIDDLE EAST INDIA ASIA AFRICA AUSTRALIA & NEW ZEALAND AMERICAS