

**AEROFOAM<sup>®</sup> - NBR**  
RUBBER INSULATION

Distributor: Green Moon  
Trading



**FLEXIBLE CLOSED CELL ELASTOMERIC FOAM SUITABLE FOR  
CONDENSATION CONTROL, THERMAL INSULATION AND  
SOUND ABSORPTION**

**CLASS 0**

**Hira**  
INDUSTRIES

MADE IN U.A.E

# AEROFOAM<sup>®</sup> - NBR

## RUBBER INSULATION

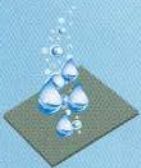


AEROFOAM<sup>®</sup> NBR is a flexible closed cell thermal insulation material for condensation control in air-conditioning, refrigeration and chilled water installations. It is also suitable for reducing thermal losses in heating and plumbing systems. The combination of its technical properties – a low thermal conductivity and a high resistance to water vapor transmission- and its competitive price makes it a cost-effective energy-saving solution. The AEROFOAM<sup>®</sup> NBR range covers the majority of pipe sizes used in these types of installations.



### Low thermal Conductivity

AEROFOAM<sup>®</sup> NBR has a unique closed cell structure, which offers the material a very good and stable thermal performance through a low Lambda ( $\lambda$ ) value.



### High Water Vapor Difussion Resistance

AEROFOAM<sup>®</sup> NBR is compounded to achieve a high water vapour diffusion resistance through its closed cell structure and outer dense skin. This helps maintaining a steady thermal performance and a long service life.



### Fire Resistance

AEROFOAM<sup>®</sup> NBR is rated Class O as per BS 476 Part 6 & 7 for spread of flame and fire propagation. It does not melt, nor drip when burning, therefore does not cause fire transfer. Low smoke density makes it a safer option.



### Environment Friendly

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



### Ease Of installation

AEROFOAM<sup>®</sup> NBR is quick and easy to install due to its high flexibility, dimensional stability and smooth surface skin. It can be applied on pipes, ducts and tanks.

## AEROFOAM® NBR TUBES

Diameter (inch)	Diameter (mm)	PC / box	6 mm (1/4")	PC / box	9 mm (3/8")	PC / box	13 mm (1/2")	PC / box	19 mm (3/4")	PC / box	25 mm (1")	PC / box	32 mm (1 1/4")
1/4"	6	180	NBRT0606	168	NBRT0906	90	NBRT1306	50	NBRT1906	35	NBRT2506	30	NBRT3206
3/8"	9	170	NBRT0609	130	NBRT0909	80	NBRT1309	40	NBRT1909	25	NBRT2509	25	NBRT3209
1/2"	13	150	NBRT0613	115	NBRT0913	65	NBRT1313	40	NBRT1913	25	NBRT2513	20	NBRT3213
5/8"	16	120	NBRT0616	90	NBRT0916	60	NBRT1316	35	NBRT1916	25	NBRT2516	20	NBRT3216
3/4"	19	100	NBRT0619	76	NBRT0919	45	NBRT1319	30	NBRT1919	20	NBRT2519	15	NBRT3219
7/8"	22	90	NBRT0622	70	NBRT0922	40	NBRT1322	30	NBRT1922	20	NBRT2522	15	NBRT3222
1"	25	80	NBRT0625	55	NBRT0925	40	NBRT1325	25	NBRT1925	20	NBRT2525	15	NBRT3225
1-1/8"	28	70	NBRT0628	55	NBRT0928	36	NBRT1328	25	NBRT1928	18	NBRT2528		
1-1/4"	32	65	NBRT0632	40	NBRT0932	30	NBRT1332	20	NBRT1932	15	NBRT2532		
1-3/8"	35	60	NBRT0635	36	NBRT0935	30	NBRT1335	20	NBRT1935	15	NBRT2535		
1-1/2"	38			36	NBRT0938	25	NBRT1338	17	NBRT1938	12	NBRT2538		
1-5/8"	42			30	NBRT0942	25	NBRT1342	17	NBRT1942	12	NBRT2542		
1-7/8"	48			25	NBRT0948	20	NBRT1348	15	NBRT1948	10	NBRT2548		
2"	51			25	NBRT0951	20	NBRT1351	15	NBRT1951	9	NBRT2551		
2-1/8"	54			25	NBRT0954	20	NBRT1354	15	NBRT1954	9	NBRT2554		
2-3/8"	60			20	NBRT0960	18	NBRT1360	12	NBRT1960	9	NBRT2560		
2-5/8"	67					15	NBRT1367	10	NBRT1967	8	NBRT2567		
2-7/8"	73					15	NBRT1373	10	NBRT1973	6	NBRT2573		
3"	76					12	NBRT1376	10	NBRT1976	6	NBRT2576		
3-1/8"	79					12	NBRT1379	10	NBRT1979	6	NBRT2579		
3-1/2"	89					10	NBRT1389	8	NBRT1989	6	NBRT2589		

Tube length: 1.83 m (6 ft)\*

Tolerance: ± 1-1.5 mm (thickness); ± 0.03 m (length)

## AEROFOAM® NBR ROLLS

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

Tolerance (rolls): ± 1-1.5 mm (thickness); ± 0.03 m (length)

Tolerance (sheets): ± 2 mm (thickness); ± 0.01 m (length)

Sheets of 4 ft x 3 ft are available for any thickness.

## ACCESSORIES

Name	Unit
NBR tape 3 mm 1" width	roll
NBR tape 3 mm 2" width	roll
PVC tape 60 ft	roll
Aerofoam Glue 2.5 l	litre
Aerofinish UV paint	gallon



## TECHNICAL DATA

### Brief description:

Highly-flexible, closed-cell insulation material with high water vapor diffusion resistance and low thermal conductivity.

**Material:** Elastomeric foam based on synthetic rubber with density between 60-70 Kg/m<sup>3</sup>.

**Self-adhesive coating:** Pressure-sensitive adhesive coating on modified acrylate basis. Covered with polyethylene foil.

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

Property	Value / Assessment*	Tested acc. to:
<b>Temperature range</b> 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
<b>Thermal conductivity <math>\lambda</math> [W/(m·K)]</b> at 24[°C] at 40[°C]	0.033 0.034	ASTM C518 : 2010 ASTM C518 : 2010
<b>Water vapour diffusion resistance factor <math>\mu</math></b>	> 7300	BS EN 12086 : 1997
<b>Water vapor permeance [perms]</b>	0	ASTM E96
<b>Water absorption [% by volume]</b>	0.06	ASTM C209 : 1998
<b>Reaction to fire</b> 1. Building material class** 2. Practical fire behaviour	Class O Low flammability, self-extinguishing, does not drip, does not spread flames; Class 1	BS 476 Part 6 & 7 ASTM E84
<b>Smoke and toxicity</b>	Passed	IMO MSC 61(67)
<b>Acoustic insulation</b>	Reduction of structure-borne sound transmission; Insulation effect up to 28 dB(A)	DIN52219 DIN EN ISO 3822-1
<b>Compression set</b>	31.23% (for 25mm) 29.83% (for 32mm)	ASTM D3574
<b>Resistance to fungi</b>	Excellent	ASTM G21 : 2009
<b>Resistance to bacteria</b>	Excellent	ISO 22196 : 2007
<b>Emission (VOC level)</b>	< 6 $\mu\text{g}/\text{m}^2/\text{hr}$	ASTM D5116
<b>Chemical resistance</b>	Very good	ASTM C871
<b>Environment friendly</b> Ozone resistance Ozone Depletion Potential Global Warming Potential CFC & HCFC, dust, fibres	Excellent 0 < 5 Free	
<b>Storage life</b> <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	

\* 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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