

# AEROFOAM<sup>®</sup>-NBR



## ***Elastomeric Thermal Insulation Foam*** ***Flexible Closed Cell***

ASTM E84

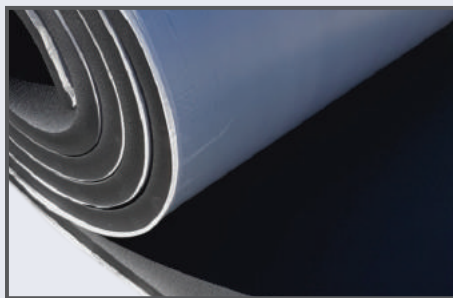
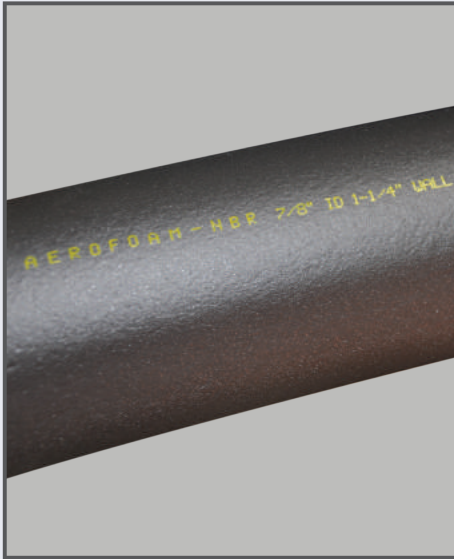
CLASS 0



RA<sup>®</sup>  
E484543



[www.aerofoam.ae](http://www.aerofoam.ae)



- Low Thermal Conductivity
- High Water Vapor Diffusion Resistance
- Good Fire Resistance

- Environment Friendly
- Ease of installation
- No Water Absorption



# AEROFOAM<sup>®</sup> NBR TUBES - SIZE RANGE

Insulation Tube Sizes		1/4" - 6 mm		3/8" - 9 mm		1/2" - 13mm		3/4" - 19 mm		1" - 25 mm		1 1/4" - 32 mm			
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		
1/4"	6	180	NBRT0606	168	NBRT0906	90	NBRT1306	50	NBRT1906	35	NBRT2506	20	NBRT3206		
3/8"	9	170	NBRT0609	130	NBRT0909	80	NBRT1309	40	NBRT1909	25	NBRT2509	20	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	15	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	12	NBRT3222		
1"	25	70	NBRT0625	55	NBRT0925	40	NBRT1325	25	NBRT1925	20	NBRT2525	12	NBRT3225		
1-1/8"	28	70	NBRT0628	55	NBRT0928	36	NBRT1328	25	NBRT1928	18	NBRT2528	12	NBRT3228		
1-1/4"	32	65	NBRT0632	40	NBRT0932	30	NBRT1332	20	NBRT1932	15	NBRT2532	12	NBRT3232		
1-3/8"	35	60	NBRT0635	36	NBRT0935	30	NBRT1335	20	NBRT1935	15	NBRT2535	12	NBRT3235		
1-1/2"	38	50	NBRT0638	36	NBRT0938	25	NBRT1338	17	NBRT1938	12	NBRT2538	10	NBRT3238		
1-5/8"	42	40	NBRT0642	30	NBRT0942	25	NBRT1342	17	NBRT1942	12	NBRT2542	10	NBRT3242		
1-7/8"	48	ID				25	NBRT0948	20	NBRT1348	15	NBRT1948	10	NBRT2548	8	NBRT3248
2"	51					25	NBRT0951	20	NBRT1351	15	NBRT1951	9	NBRT2551	8	NBRT3251
2-1/8"	54					25	NBRT0954	20	NBRT1354	15	NBRT1954	9	NBRT2554	8	NBRT3254
2-3/8"	60					20	NBRT0960	18	NBRT1360	12	NBRT1960	9	NBRT2560	6	NBRT3260
2-1/2"	63					Tolerance				18	NBRT1363	12	NBRT1963	8	NBRT2563
2-5/8"	67	Thickness				≤6mm: ±1mm	15	NBRT1367	10	NBRT1967	8	NBRT2567	5	NBRT3267	
2-7/8"	73					9-16mm: ±1.5mm	15	NBRT1373	10	NBRT1973	6	NBRT2573	4	NBRT3273	
3"	76					19-25mm: ±2.5mm	12	NBRT1376	10	NBRT1976	6	NBRT2576	4	NBRT3276	
3-1/8"	79					≥32mm: ±3.0mm	12	NBRT1379	10	NBRT1979	6	NBRT2579	4	NBRT3279	
3-1/2"	89	Length				≤6mm: ±1mm	10	NBRT1389	8	NBRT1989	6	NBRT2589	4	NBRT3289	
3-5/8"	92					9-16mm: ±1.5mm	8	NBRT1392	6	NBRT1992	6	NBRT2592	4	NBRT3292	
4"	102					19-25mm: ±2.5mm	8	NBRT13102	6	NBRT19102	4	NBRT25102	3	NBRT32102	
4-1/8"	105					≥32mm: ±3.0mm	8	NBRT13105	6	NBRT19105	4	NBRT25105	3	NBRT32105	
4-1/4"	110	1.8mtr ± 1.5%				8	NBRT13110	6	NBRT19110	4	NBRT25110	3	NBRT32110		
4-1/2"	114					6	NBRT13114	6	NBRT19114	3	NBRT25114	3	NBRT32114		

**Note:** Aluglass foil finishing for tubes is available for 13,19,25 and 32mm wall thickness range.

# AEROFOAM<sup>®</sup> NBR ROLLS - SIZE RANGE

Thickness	Thickness	Width x length	Type				
(inch)	(mm)	(m x m)	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	NBRR06-1-30/SA	NBRR06-1-30/AL	NBRR06-1-30/SA-AL	
3/8"	9	1x20	NBRR09-1-20	NBRR09-1-20/SA	NBRR09-1-20/AL	NBRR09-1-20/SA-AL	NBRR09-1-20/CL
1/2"	13	1x14	NBRR13-1-14	NBRR13-1-14/SA	NBRR13-1-14/AL	NBRR13-1-14/SA-AL	NBRR13-1-14/CL
5/8"	16	1x12	NBRR16-1-12	NBRR16-1-12/SA	NBRR16-1-12/AL	NBRR16-1-12/SA-AL	NBRR16-1-12/CL
3/4"	19	1x10	NBRR19-1-10	NBRR19-1-10/SA	NBRR19-1-10/AL	NBRR19-1-10/SA-AL	NBRR19-1-10/CL
1"	25	1x8	NBRR25-1-08	NBRR25-1-08/SA	NBRR25-1-08/AL	NBRR25-1-08/SA-AL	NBRR25-1-08/CL
1-1/4"	32	1x6	NBRR32-1-06	NBRR32-1-06/SA	NBRR32-1-06/AL	NBRR32-1-06/SA-AL	NBRR32-1-06/CL
1-1/2"	40	1x4	NBRR40-1-04	NBRR40-1-04/SA	NBRR40-1-04/AL	NBRR40-1-04/SA-AL	NBRR40-1-04/CL
2"	50	1x4	NBRR50-1-04	NBRR50-1-04/SA	NBRR50-1-04/AL	NBRR50-1-02/SA-AL	NBRR50-1-02/CL

Tolerance Sheets: 6-25mm ±2mm (thickness); ± 1.5% (length)  
32-50mm ± 3mm (thickness); ± 1.5% (length)  
Width: ± [-20mm+40mm]

ACCESSORIES	Unit
AEROFOAM <sup>®</sup> NBR Tape	roll
AEROFOAM <sup>®</sup> NBR Foam Tape 3mm	roll
AEROFOAM <sup>®</sup> NBR Aluglass Tape	roll
AEROFOAM <sup>®</sup> NBR Glue 5L	litre
AEROFINISH Paint (1kg & 20kg)	kg



# 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/m<sup>3</sup>.

**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:
<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) -80°C	DIN EN 14706 ASTM C534 Type 1 & 2
<b>Thermal conductivity</b> at 24°C at 35°C	0.033 W/(mK) 0.035 W/(mK)	ASTM C518
<b>Water vapor diffusion resistance factor (<math>\mu</math>)</b>	$\geq 17,000$	BS EN 12086
<b>Water vapor permeance [perms]</b>	0	ASTM E96
<b>Water absorption [% by volume]</b>	0.06	ASTM C209
<b>Reaction to fire</b>	Class 0 Class 0 Comply	BS 476 Part 6 & 7 ASTM E 84 DCD Fire & Life Safety Code
<b>Resistance to fungi</b>	Passed	ASTM G21
<b>Resistance to bacteria</b>	Passed	ISO 22196
<b>Emission (VOC level)</b>	Very Low	ASTM D5116
<b>Corrosion Risk</b>	pH Neutral	DIN 1988
<b>Leachable Chlorides</b>	<0.05% water soluble chloride ions	DIN 1988
<b>Environment friendly</b> Ozone resistance Ozone Depletion Potential Global Warming Potential CFC & HCFC, dust, fibres & asbestos	Excellent Zero < 5 Free	
<b>Shelf Life</b> <i>Store in dry, clean and ventilated place. Do not expose to direct sunlight.</i>	1 year for self-adhesive sheets/rolls, self-adhesive tapes	

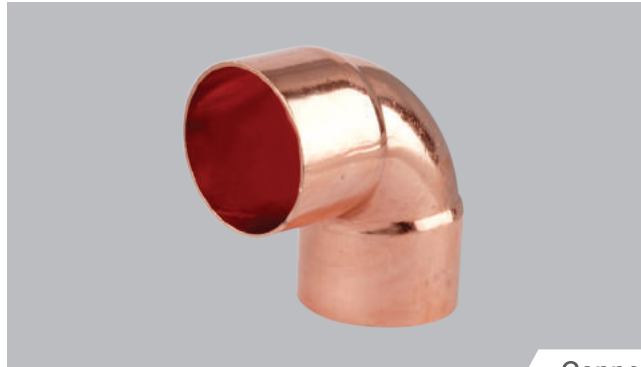
**Applications:** Thermal insulation/ protection for pipes, air ducts, (incl. elbows, fittings, flanges etc.)  
air-conditioning / refrigeration and process equipment to prevent condensation and save energy.

**Note:** All outdoor applications of Aerofoam elastomeric foam need to be protected by Aerofoam approved paint or cladding.

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Steel Elbows



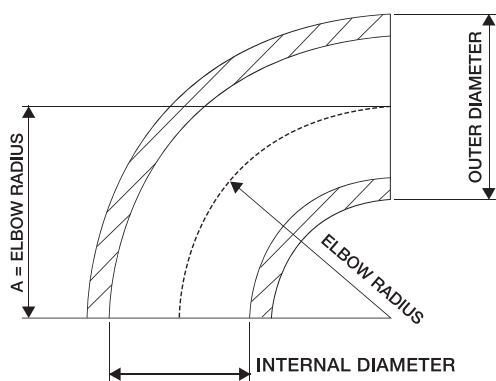
Copper Elbows



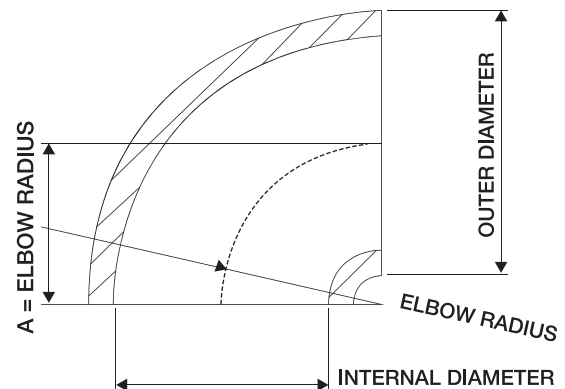
Plastic Elbows

**Note: Aero-Fittings** can be manufactured for any type of elbows upon request, to get a quote for elbow fabrication, kindly provide us with the type of material of the elbow (steel, copper, plastic, etc), size and insulation thickness at [enquiry@rhira.com](mailto:enquiry@rhira.com).

#### EXAMPLE DRAWINGS



90 DEGREES LONG ELBOW



90 DEGREES SHORT ELBOW

# AERO-FITTINGS

## (Prefabricated Fittings)

**Prefabricated Aero-fittings** are made from flexible elastomeric foam. These are made into different shapes such as Elbows, T and Y Sections. Prefabricated Fittings are moisture resistant and have anti-fungal and anti-bacterial resistant properties.

### Features:-

- Prefabricated to fit over different Elbows and Tees.
- All joints are sealed with Aerofoam glue.

### Application:-

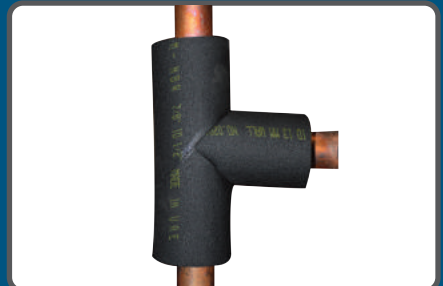
- Used for hot, chilled water pipes and air conditioning applications with minimal cost of installation.
- For additional weather resistance, cladding must be applied for outdoor applications.



90° Elbow



45° Elbow



Tee Joint



90° 4 Pieces Elbow



90° 3 Pieces Elbow



Y - Joint

**Size Availability:** Aerofoam® NBR fittings available in wall thickness from 3/8" to 2" (10mm to 50mm) and ID's from 1/4" to 10" (6mm to 273mm).

(ID range is subject to variation depending on wall thickness).

**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.