AEROFOAM®-NBR CLAD



Flexible Closed Cell
Elastomeric Thermal Insulation Foam
for Indoor & Outdoor Applications

CLASS 0 ASTM E84

GREENGUARD

www.aerofoamglobal.com

AEROFOAM® NBR CLAD TUBES & ROLLS

Aerofoam® NBR Clad is your 2-in-1 innovative solution offering energy savings combined with reliable weathering protection and it can be used in specific applications such as pharmaceutical, food and beverages, healthcare, data centers, industrial and marine.

Aerofoam® NBR Clad is easy to install and offers time savings of more than 50% compared to non-factory applied jacketing systems.





FEATURES

- Excellent thermal efficiency
- Suitable for cooling & heating systems
- Suitable for application in coastal areas
- Resistant to mold & mildew growth
- Environmental friendly foam
- No corrosion risk
- High mechanical strength & durability
- UV & weather resistant
- Chemical resistant
- Resistant to bacteria growth
- Ozone resistant
- No additional coating needed

APPLICATIONS









AERO-FITTINGS

Pre-fabricated Aero-fittings are made in different shapes such as 90 and 45 degrees Elbows, Tees and Y-Branches. Outer cladding is offered separately.



AEROFOAM® TAPE



Aerofoam® Tape
N Clad

AEROFOAM® NBR GLUE



AEROCALC

AEROCALC software is an excellent tool for calculating the most optimal thicknesses of insulation. Available as **Desktop, iOS** and **Android** applications.

Visit our website: **www.aerofoamglobal.com**



Scan the QR code to download the Desktop app.

AEROFOAM® NBR CLAD TUBES - SIZE RANGE

Thickness		9 mm (3/8")		13 mm (1/2")		19 mm (3/4")		25 mm (1")		32 mm (1-1/4")	
Inch	mm	NBR Clad Code	Pcs /Box	NBR Clad Code	Pcs /Box	NBR Clad Code	Pcs /Box	NBR Clad Code	Pcs /Box	NBR Clad Code	Pcs /Box
1/4"	6			NBRT13x6/CL	70	NBRT19x6/CL	40	NBRT25x6/CL	30	NBRT32x6/CL	15
3/8"	9			NBRT13x9/CL	60	NBRT19x9/CL	35	NBRT25x9/CL	20	NBRT32x9/CL	15
1/2"	13			NBRT13x13/CL	50	NBRT19x13/CL	35	NBRT25x13/CL	20	NBRT32x13/CL	15
5/8"	16			NBRT13x16/CL	45	NBRT19x16/CL	30	NBRT25x16/CL	20	NBRT32x16/CL	15
3/4"	19			NBRT13x19/CL	40	NBRT19x19/CL	25	NBRT25x19/CL	20	NBRT32x19/CL	15
7/8"	22			NBRT13x22/CL	35	NBRT19x22/CL	25	NBRT25x22/CL	20	NBRT32x22/CL	10
1"	25	NBRT9x25/CL	40	NBRT13x25/CL	35	NBRT19x25/CL	20	NBRT25x25/CL	15	NBRT32x25/CL	10
1 -1/8"	28	NBRT9x28/CL	36	NBRT13x28/CL	30	NBRT19x28/CL	20	NBRT25x28/CL	15	NBRT32x28/CL	10
1 -1/4"	32	NBRT9x32/CL	30	NBRT13x32/CL	25	NBRT19x32/CL	20	NBRT25x32/CL	15	NBRT32x32/CL	10
1 -3/8"	35	NBRT9x35/CL	30	NBRT13x35/CL	25	NBRT19x35/CL	20	NBRT25x35/CL	15	NBRT32x35/CL	10
1 -1/2"	38	NBRT9x38/CL	30	NBRT13x38/CL	20	NBRT19x38/CL	15	NBRT25x38/CL	12	NBRT32x38/CL	10
1 -5/8"	42	NBRT9x42/CL	25	NBRT13x42/CL	20	NBRT19x42/CL	15	NBRT25x42/CL	12	NBRT32x42/CL	10
1 -7/8"	48	NBRT9x48/CL	20	NBRT13x48/CL	20	NBRT19x48/CL	15	NBRT25x48/CL	10	NBRT32x48/CL	8
2"	51	NBRT9x51/CL	20	NBRT13x51/CL	15	NBRT19x51/CL	15	NBRT25x51/CL	9	NBRT32x51/CL	8
2 -1/8"	54	NBRT9x54/CL	20	NBRT13x54/CL	15	NBRT19x54/CL	15	NBRT25x54/CL	9	NBRT32x54/CL	8
2 -3/8"	60	NBRT9x60/CL	20	NBRT13x60/CL	15	NBRT19x60/CL	12	NBRT25x60/CL	9	NBRT32x60/CL	6
2 -1/2"	63	NBRT9x63/CL	20	NBRT13x63/CL	15	NBRT19x63/CL	12	NBRT25x63/CL	9	NBRT32x63/CL	6
2 -5/8"	67	NBRT9x67/CL	20	NBRT13x67/CL	15	NBRT19x67/CL	10	NBRT25x67/CL	8	NBRT32x67/CL	5
2 -7/8"	73	NBRT9x73/CL	18	NBRT13x73/CL	12	NBRT19x73/CL	10	NBRT25x73/CL	6	NBRT32x73/CL	4
3"	76	NBRT9x76/CL	15	NBRT13x76/CL	12	NBRT19x76/CL	10	NBRT25x76/CL	6	NBRT32x76/CL	4
3 -1/8"	79	NBRT9x79/CL	15	NBRT13x79/CL	12	NBRT19x79/CL	10	NBRT25x79/CL	6	NBRT32x79/CL	4
3 -1/2"	89	NBRT9x89/CL	15	NBRT13x89/CL	10	NBRT19x89/CL	8	NBRT25x89/CL	6	NBRT32x89/CL	4
3 -5/8"	92			NBRT13x92/CL	8	NBRT19x92/CL	6	NBRT25x92/CL	6	NBRT32x92/CL	4
4"	102			NBRT13x102/CL	8	NBRT19x102/CL	6	NBRT25x102/CL	4	NBRT32x102/CL	3
4 -1/8"	105			NBRT13x105/CL	8	NBRT19x105/CL	6	NBRT25x105/CL	4	NBRT32x105/CL	3
4 -1/4"	110			NBRT13x110/CL	8	NBRT19x110/CL	6	NBRT25x110/CL	4	NBRT32x110/CL	3
4 -1/2"	114			NBRT13x114/CL	6	NBRT19x114/CL	6	NBRT25x114/CL	3	NBRT32x114/CL	3

Note: Available length of tubes 1 m. Aerofoam® NBR Clad tubes are packed in carton box.

AEROFOAM® NBR CLAD ROLLS & SHEETS - SIZE RANGE

NBR Clad Rolls						NBR Clad Sheets			
THK. Inch	THK. Inch	W x L mtr	Without Self Adhesive	With Self Adhesive	Pcs /Box	W x L mtr	Without Self Adhesive	With Self Adhesive	Pcs /Box
1/4"	6	1x30/ 1x20 (with SA)	NBRR6x1x30/CL	NBRR6x1x20/CL-SA	1	1x1	NBRS6x1000x1000/CL	NBRS6x1000x1000/CL-SA	30
3/8"	9	1x20/ 1x15 (with SA)	NBRR9x1x20/CL	NBRR9x1x15/CL-SA	1	1x1	NBRS9x1000x1000/CL	NBRS9x1000x1000/CL-SA	20
1/2"	13	1x14/ 1x10 (with SA)	NBRR13x1x14/CL	NBRR13x1x10/CL-SA	1	1x1	NBRS13x1000x1000/CL	NBRS13x1000x1000/CL-SA	15
5/8"	16	1x12/ 1x10 (with SA)	NBRR16x1x12/CL	NBRR16x1x10/CL-SA	1	1x1	NBRS16x1000x1000/CL	NBRS16x1000x1000/CL-SA	12
3/4"	19	1x10/ 1x7 (with SA)	NBRR19x1x10/CL	NBRR19x1x7/CL-SA	1	1x1	NBRS19x1000x1000/CL	NBRS19x1000x1000/CL-SA	10
1"	25	1x8/ 1x5 (with SA)	NBRR25x1x8/CL	NBRR25x1x5/CL-SA	1	1x1	NBRS25x1000x1000/CL	NBRS25x1000x1000/CL-SA	8
1-1/4"	32	1x4	NBRR32x1x4/CL	NBRR32x1x4/CL-SA	1	1x1	NBRS32x1000x1000/CL	NBRS32x1000x1000/CL-SA	6
1-1/2"	40	1x2	NBRR40x1x2/CL	NBRR40x1x2/CL-SA	1	1x1	NBRS40x1000x1000/CL	NBRS40x1000x1000/CL-SA	4
2"	50	1x2	NBRR50x1x2/CL	NBRR50x1x2/CL-SA	1	1x1	NBRS50x1000x1000/CL	NBRS50x1000x1000/CL-SA	4

Note: Aerofoam® NBR Clad Rolls and Sheets are packed in carton box.

Tolerances - Tubes (foam core only)		
	Target	Target Tolerance
Internal Diameter (ID)	ID + 1 mm	-1 mm, +4 mm (for ID ≤100 mm)
		-1 mm, +6 mm (for ID >100 mm)
Thickness	≤6 -16 mm: ±1.5 mm	
	19-25 mm : ±2.5 mm	
	≥32 mm ±3 mm	
Length	±1.5%	

Tolerances Rolls and Sheets			
Thickness	Thickness Tolerance	Length Tolerance	Width Tolerance
6-25 mm	± 2 mm	±1.5%	-20 mm +40 mm
32-50 mm	± 3 mm		

Accessories
Aerofoam® N Clad Tape
Aerofoam® NBR Glue

Aerofoam® NBR Clad system is also available as **pre-slit tubes** and **pre-slit with self adhesive Lap Seal.** Installation is easy, fast and efficient.





Aerofoam® NBR Clad Pre-slit Tubes with Lap Seal





Aerofoam® NBR Clad Pre-slit Tubes

TECHNICAL DATA

Description: Flexible elastomeric closed cell thermal insulation foam with factory applied durable jacketing for indoor and outdoor applications for mechanical and weather protection, mainly designed to control condensation and energy losses.

Property	Value/ Assessment	Tested acc. to:
Aerofoam® NBR CLAD (foam core only)		
Thermal conductivity (at 23 °C)	0.033 W/m·K	ASTM C518
Temperature range Max. line temperature Min. line temperature	 +110 °C (+80 °C with PSA*) -80 °C (-30 °C with PSA*)	 ASTM C411 ASTM C534
Density of the foam core	40-70 kg/m³	ASTM C302
Water vapor permeance	1.56E-09 g/m².s.Pa	ASTM E96
Water absorption	0.06% by volume	ASTM C209
Reaction to fire	FSI<25, SDI<50	ASTM E84
	Class O	BS 476 part 6&7
Smoke density & toxicity	Passed	IMO MSC 61(67)
Chemical analysis	<0.05% water soluble chloride ions	DIN 1988
	pH - 7.3	ASTM C871
Compression set	31.23% (for 25 mm)	ASTM D3574
Resistance to fungi	Zero Growth	ASTM G21
Resistance to bacteria	Zero Growth	ISO 22196
Ozone resistance	Passed	ASTM D1149
TVOC (Emission rate - 24 hours)	<0.5 mg/m²/hr	ASTM D5116
RoHS	Comply	RoHS 3 2015/863
Ozone Depletion Potential (ODP)	0	
Global Warming Potential (GWP)	<5	
CFC & HCFC	Free	
Aerofoam® NBR CLAD (with foil)		
Water vapor permeability	<0.028 g/m²/d	ASTM F1249
Water vapor diffusion resistance factor	μ>45000	UNE EN 12086
Reaction to fire	FDI <25, SDI <50	ASTM E84
Weather & UV resistance (foil)	Excellent	UNE EN ISO 4892-3 & ASTM G26A
Tensile strength (foil)	MD 200 N/15 mm CD 175 N/15 mm	EN ISO 527-3
Elongation (foil)	MD 48% CD 51%	EN ISO 527-3
Tear strength (foil)	MD 70 N CD 28 N	EN ISO 527-3
TVOC Emission	UL Greenguard Gold Certified	CDPH v1.2/UL 2818

Storage life

Can be stored for 24 months (12 months with PSA) from manufacturing date in a dry, clean, dust free room at normal humidity and ambient temperature.*

*PSA - Pressure Sensitive Adhesive

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.

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