

AEROFOAM[®]-NBR CLAD



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

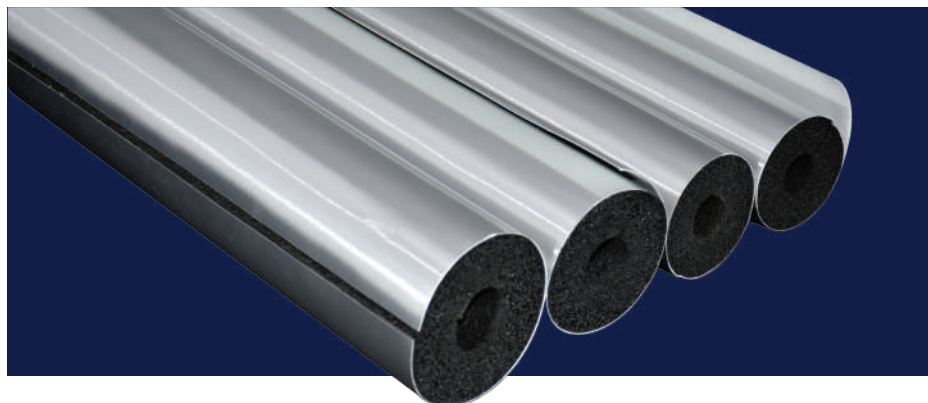
ASTM E84

🌐 www.aerofoamusa.com

AEROFOAM® NBR CLAD

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

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



FEATURES



Excellent thermal efficiency



High mechanical strength & durability



Suitable for cooling & heating systems



UV & weather resistant



Suitable for application in coastal areas



Chemical resistant



Resistant to mold & mildew growth



Resistant to bacteria growth



Environmental friendly foam



Ozone resistant



No corrosion risk



No additional coating needed

APPLICATIONS

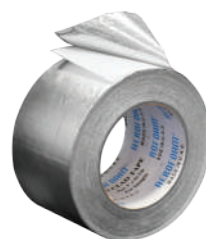


AERO-FITTINGS

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: aerofoamusa.com



Scan the QR code to download the Desktop app.



AEROFOAM® NBR CLAD TUBES

Thickness	3/8"		1/2"		3/4"		1"		1 -1/4"	
ID	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"			NBRT12x14/CL	70	NBRT34x14/CL	40	NBRT1x14/CL	30	NBRT114x14/CL	15
3/8"			NBRT12x38/CL	60	NBRT34x38/CL	35	NBRT1x38/CL	20	NBRT114x38/CL	15
1/2"			NBRT12x12/CL	50	NBRT34x12/CL	35	NBRT1x12/CL	20	NBRT114x12/CL	15
5/8"			NBRT12x58/CL	45	NBRT34x58/CL	30	NBRT1x58/CL	20	NBRT114x58/CL	15
3/4"			NBRT12x34/CL	40	NBRT34x34/CL	25	NBRT1x34/CL	20	NBRT114x34/CL	15
7/8"			NBRT12x78/CL	35	NBRT34x78/CL	25	NBRT1x78/CL	20	NBRT114x78/CL	10
1"			NBRT12x1/CL	35	NBRT34x1/CL	20	NBRT1x1/CL	15	NBRT114x1/CL	10
1 -1/8"			NBRT12x118/CL	30	NBRT34x118/CL	20	NBRT1x118/CL	15	NBRT114x118/CL	10
1 -1/4"			NBRT12x114/CL	25	NBRT34x114/CL	20	NBRT1x114/CL	15	NBRT114x114/CL	10
1 -3/8"			NBRT12x138/CL	25	NBRT34x138/CL	20	NBRT1x138/CL	15	NBRT114x138/CL	10
1 -1/2"	NBRT38x112/CL	30	NBRT12x112/CL	20	NBRT34x112/CL	15	NBRT1x112/CL	12	NBRT114x112/CL	10
1 -5/8"	NBRT38x158/CL	25	NBRT12x158/CL	20	NBRT34x158/CL	15	NBRT1x158/CL	12	NBRT114x158/CL	10
1 -7/8"	NBRT38x178/CL	20	NBRT12x178/CL	20	NBRT34x178/CL	15	NBRT1x178/CL	10	NBRT114x178/CL	8
2"	NBRT38x2/CL	20	NBRT12x2/CL	15	NBRT34x2/CL	15	NBRT1x2/CL	9	NBRT114x2/CL	8
2 -1/8"	NBRT38x218/CL	20	NBRT12x218/CL	15	NBRT34x218/CL	15	NBRT1x218/CL	9	NBRT114x218/CL	8
2 -3/8"	NBRT38x238/CL	15	NBRT12x238/CL	15	NBRT34x238/CL	12	NBRT1x238/CL	9	NBRT114x238/CL	6
2 -1/2"	NBRT38x212/CL	15	NBRT12x212/CL	15	NBRT34x212/CL	12	NBRT1x212/CL	9	NBRT114x212/CL	6
2 -5/8"	NBRT38x258/CL	15	NBRT12x258/CL	15	NBRT34x258/CL	10	NBRT1x258/CL	8	NBRT114x258/CL	5
2 -7/8"	Tolerances - foam core only		NBRT12x278/CL	12	NBRT34x278/CL	10	NBRT1x278/CL	6	NBRT114x278/CL	4
3"	ID	1/4": ±0.04	NBRT12x3/CL	12	NBRT34x3/CL	10	NBRT1x3/CL	6	NBRT114x3/CL	4
3 -1/8"		3/8" to 5/8": ±0.06	NBRT12x318/CL	12	NBRT34x318/CL	10	NBRT1x318/CL	6	NBRT114x318/CL	4
3 -1/2"		3/4" to 1": ±0.09	NBRT12x312/CL	10	NBRT34x312/CL	8	NBRT1x312/CL	6	NBRT114x312/CL	4
3 -5/8"		1-1/4": ±0.125	NBRT12x358/CL	8	NBRT34x358/CL	6	NBRT1x358/CL	6	NBRT114x358/CL	4
4"	Thickness	≤1/4" to 5/8": ±0.06	NBRT12x4/CL	8	NBRT34x4/CL	6	NBRT1x4/CL	4	NBRT114x4/CL	3
4 -1/8"		3/4" to 1": ±0.09	NBRT12x418/CL	8	NBRT34x418/CL	6	NBRT1x418/CL	4	NBRT114x418/CL	3
4 -1/4"	Length	1-1/4": ±0.125	NBRT12x414/CL	8	NBRT34x414/CL	6	NBRT1x414/CL	4	NBRT114x414/CL	3
4 -1/2"		3.28 ft: ±1.5%	NBRT12x412/CL	6	NBRT12x412/CL	6	NBRT1x412/CL	3	NBRT114x412/CL	3

AEROFOAM® NBR CLAD ROLLS & SHEETS

NBR Clad Rolls				
Thickness	W x L Inch	Without Self Adhesive	With Self Adhesive	Pcs /Box
1/4"	40x98	NBRR14x40x98/CL	NBRR14x40x98/CL-SA	1
3/8"	40x66	NBRR38x40x66/CL	NBRR38x40x66/CL-SA	1
1/2"	40x46	NBRR12x40x46/CL	NBRR12x40x46/CL-SA	1
5/8"	40x39	NBRR58x40x39/CL	NBRR58x40x39/CL-SA	1
3/4"	40x33	NBRR34x40x33/CL	NBRR34x40x33/CL-SA	1
1"	40x26	NBRR1x40x26/CL	NBRR1x40x26/CL-SA	1
1-1/4"	40x20	NBRR114x40x20/CL	NBRR114x40x20/CL-SA	1
1-1/2"	40x13	NBRR112x40x13/CL	NBRR112x40x13/CL-SA	1
2"	40x13	NBRR2x40x13/CL	NBRR2x40x13/CL-SA	1

NBR Clad Sheets				
Thickness	W x L Inch	Without Self Adhesive	With Self Adhesive	Pcs /Box
1/4"	36x48	NBRS14x3x4/CL	NBRS14x3x4/CL-SA	30
3/8"	36x48	NBRS38x3x4/CL	NBRS38x3x4/CL-SA	20
1/2"	36x48	NBRS12x3x4/CL	NBRS12x3x4/CL-SA	15
5/8"	36x48	NBRS58x3x4/CL	NBRS58x3x4/CL-SA	12
3/4"	36x48	NBRS34x3x4/CL	NBRS34x3x4/CL-SA	10
1"	36x48	NBRS1x3x4/CL	NBRS1x3x4/CL-SA	8
1-1/4"	36x48	NBRS114x3x4/CL	NBRS114x3x4/CL-SA	6
1-1/2"	36x48	NBRS112x3x4/CL	NBRS112x3x4/CL-SA	4
2"	36x48	NBRS2x3x4/CL	NBRS2x3x4/CL-SA	4

Tolerances			
Thickness	Thickness Tolerance	Length Tolerance	Width Tolerance
1/4" - 3/4"	±0.06"	±1.5%	-0.78" +1.58"
1" - 1-1/4"	±0.09"	±1.5%	
1-1/2" - 2"	±0.13"	±1.5%	

Accessories
Aerofoam® N Clad Tape
Aerofoam® NBR Glue

SPECIFICATION COMPLIANCE:

- NFPA 255
 - ASTM E84
 - ASTM C534
 - FMVSS 302
 - CAN/ULC S102
 - NFPA 90A, 90B
- ASTM D1056-00-2B1
 - NFPA No. 101 Class A Rating
 - UL 94-5V Flammability Classification (E484543)
 - Meets energy code requirements of ASHRAE 90.1 and 189.1

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	Test Method
Aerofoam® NBR CLAD (foam core only)		
Thermal conductivity	0.22 BTU-In/h-ft² at 32 °F 0.23 BTU-In/h-ft² at 75 °F 0.25 BTU-In/h-ft² at 90 °F	ASTM C518
Temperature range	+230 °F (+185 °F with PSA*) -112 °F (-40 °F with PSA*)	ASTM C411 ASTM C534
Water vapor permeance	0.005 perm-inch	ASTM E96
Water absorption	0.06% by volume	ASTM C209
Reaction to fire	FSI<25, SDI<50	ASTM E84
	FSR<150, SDC<300	CAN/ULC-S102
Smoke density and toxicity	Passed	IMO MSC 61(67)
Compression set	31.23% (for 1") 29.83% (for 1-1/4")	ASTM D3574
Chemical analysis	<0.05% water soluble chloride ions	DIN 1988
	pH - 7.3	ASTM C871
Density	2.5-5 lb/ft³	ASTM C302
RoHS	Comply	RoHS 3 2015/863
Ozone resistance	Passed	ASTM D1149
TVOC (Emission Rate - 24 hours)	9.10 x 10 ⁻¹¹ oz/inch²/h	ASTM D5116
Ozone Depletion Potential (ODP)	Zero	
Global Warming Potential (GWP)	<5	
CFC & HCFC	Free	
Resistance to fungi	Zero Growth	ASTM G21
Resistance to bacteria	Zero Growth	ISO 22196
Aerofoam® NBR CLAD (with foil)		
Water vapor permeance	3.97x10(e-8) lb/inch²/d	ASTM F1249
Water vapor diffusion resistance factor	μ>45000	UNE EN 12086
Reaction to fire	FSI<25, SDI<50	ASTM E84
Weather and 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
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 within 35 °F - 95 °F.		

*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.