



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





Flexicell® NBR Clad Tubes

Flexicell® NBR Clad is an innovative 2-in-1 solution that combines energy efficiency with dependable weather protection. It is suitable for a wide range of applications, including - pharmaceuticals, food and beverage, healthcare, data centers, industrial and marine sectors.

Flexicell® NBR Clad is easy to install and can reduce installation time by more than 50% compared to conventional non factory applied jacketing systems.



Flexicell® NBR Clad Rolls

Excellent Thermal Efficiency

Flexicell® NBR Clad combines low thermal conductivity with a closed cell structure to effectively limit heat transfer. This ensures reliable insulation performance and improved energy efficiency over time.



High Mechanical Strength and Durability

Flexicell® NBR Clad features a factory-applied durable jacketing that provides excellent resistance to UV exposure, weathering, and mechanical damage. Its robust construction ensures long-term performance even in demanding outdoor environments.



Fast and Easy Installation

With factory-applied UV and weather-resistant jacketing, Flexicell® NBR Clad eliminates the need for additional coating or protection layers. This simplifies the process and can reduce installation time by up to 50%.



Lap Seal Option

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



Flexicell® NBR Clad Pre-slit Tubes with Lap Seal



Flexicell® NBR Clad Pre-slit Tubes

Aerofittings

Aerofittings provides pre-fabricated fittings for elbows, tees and other components, custom-made to project requirements for a clean finish and continuous insulation.



TECHNICAL DATA

Description: Flexicell® NBR Clad is a 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:
Flexicell® NBR CLAD (foam core only)		
Thermal conductivity (at 23 °C)	0.033 W/m K	ASTM C518
Temperature range		
Max. line temperature	+110 °C (+80 °C with PSA*)	ASTM C411
Min. line temperature	-80 °C (-30 °C with PSA*)	ASTM C534
Density of the foam core	40-70 kg/m ³	ASTM C302
Water vapor permeance	1.56E-09 g/m ² .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
Resistance to fungi	Zero Growth	ASTM G21
Resistance to bacteria	Zero Growth	ISO 22196
TVOC (Emission rate - 24 hours)	<0.5 mg/m ² /hr	ASTM D5116
Ozone Depletion Potential (ODP)	0	
Global Warming Potential (GWP)	<5	
CFC & HCFC	Free	
Flexicell ® NBR CLAD (with foil)		
Water vapor permeability	<0.028 g/m ² /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	EN ISO 527-3
	CD 175 N/15 mm	
Elongation (foil)	MD 48%	EN ISO 527-3
	CD 51%	
Tear strength (foil)	MD 70 N	EN ISO 527-3
	CD 28 N	
Storage life	Size availability	
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.	Tubes thickness	Tube ID
	9 mm	25mm - 89mm
	13-32 mm	6mm - 114mm
	Sheet thickness	Size
	6-50 mm	1m x 1m
	Roll thickness	Size
6-50 mm	1m x 30m / 20m (with SA)	
		(various lengths depending on thickness)

*PSA - Pressure Sensitive Adhesive

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

MANUFACTURING LOCATIONS

Hira Industries LLC
P.O. Box 50673, Dubai - UAE
T: +971 4 884 8414
E: enquiry@rhira.com
www.rhira.com

Hira Manufacturing Co. Ltd.
Factory: Lot 16, Street No. 5, Giang Dien IP,
Giang Dien Commune, Tang Bom District,
Dong Nai Province, HCMC, Vietnam
T: +84 911 297 278

Australia/NZ Enquiries
enquiry@flexicell.com.au
Mob: 0433 101 204
www.flexicell.com.au

