



FLEXICELL

NBR INSULATION



TESTED TO 1530.3

Hiro
INDUSTRIES
Made in Dubai



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



**Noise control
properties**

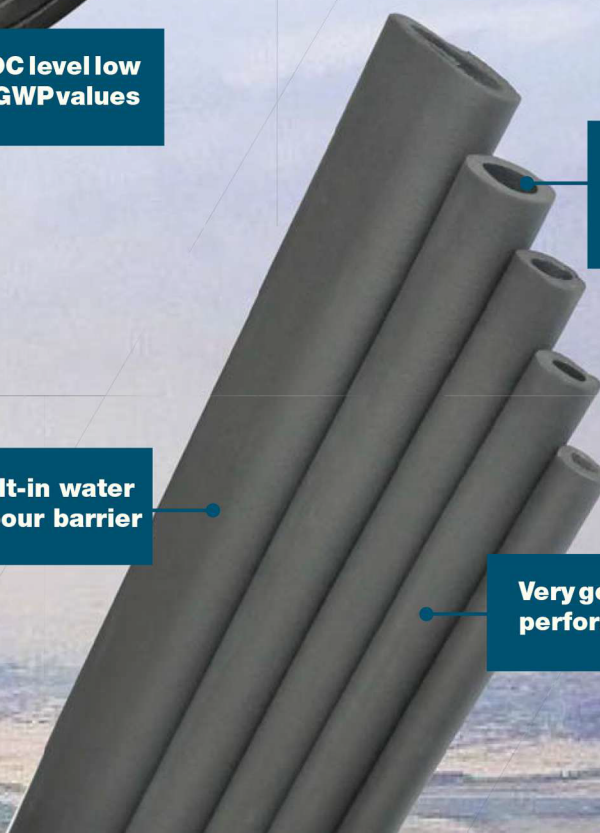
**Low VOC level low
ODP & GWP values**

**Very flexible
foam insulation**

**Built-in water
vapour barrier**

**Very secure joints
when the Flexicell
NBR glue is used**

**Very good thermal
performance**





Flexicell 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 **Flexicell** NBR range covers the majority of pipe sizes used in these types of installations.



FIRE RESISTANCE

Flexicell 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.



EXCELLENT THERMAL EFFICIENCY

Flexicell NBR has a unique closed cell structure, which offers the material a very good and stable thermal performance through a low Lambda (λ) value



ENVIRONMENTALLY FRIENDLY

Flexicell 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)



HIGH WATER VAPOR DIFFUSION RESISTANCE

Flexicell 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.



EASE OF INSTALLATION

Flexicell 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.

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/m³

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 sea energy.

Property	Value/ Assessment	Tested acc. to:
Temperature range Max. line temperature Min. line temperature Our Customer Service Center should be consulted for applications with temperatures below -50° C	+150° C (flat surface and tape +85° C) -50° C (-200° C)	DIN EN 14706 : 2005 (E) ASTM C534 Type 1 & 2
Thermal conductivity λ [W/(m·K)] at 24[°C] at 40[°C]	0.033 0.034	ASTM C518 : 2010 ASTM C518 : 2010
Water vapour diffusion resistance factor	> 7300	BS EN 12086 : 1997
Water vapor permeance [perms]	0	ASTM E96
Water absorption [% by volume]	0.06	ASTM C209 : 1998
Reaction to fire 1. Building material class** 2. Practical fire behaviour	Class O Low flammability, self-extinguishing, does not drip, does not spread flames: Class1	BS 476 Part 6 & 7 ASTM
Smoke and toxicity	Passed	IMO MSC 61(67)
Acoustic insulation	Reduction of structure-borne sound transmission; Insulation effect up to 28 dB(A)	DIN52219 DIN EN ISO 3822-1
Compression set	31.23% (for 25mm) 29.83% (for 32mm)	ASTM D3574
Resistance to fungi	Excellent	ASTM G21 : 2009
Resistance to bacteria	Excellent	ISO 22196 : 2007
Emission (VOC level)	< 6 µg/m ² /hr	ASTM D5116
Chemical resistance	Very good	ASTM C871
Environment friendly Ozone resistance Ozone Depletion Potential Global Warming Potential CFC & HCFC, dust, fibres	Excellent 0 < 5 Free	
Storage life Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0° C - 35° C)	1 year for self-adhesive sheets/rolls, self-adhesive tapes	

Fire Performance

Property	Mean	Tested acc. to:
Ignition time	Nil min	ASTM 1530.3
Flame propagation time	Nil s	∕
Heat release integral	Nil kJ/m ²	∕
Smoke release, log d	-0.7819	∕
Optical density, d	0.1657 /m	∕
REGULATORY INDICES:		
Ignitability Index	0	∕
Spread of Flame Index	0	∕
Heat Evolved Index	0	∕
Smoke Developed Index	5	∕

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