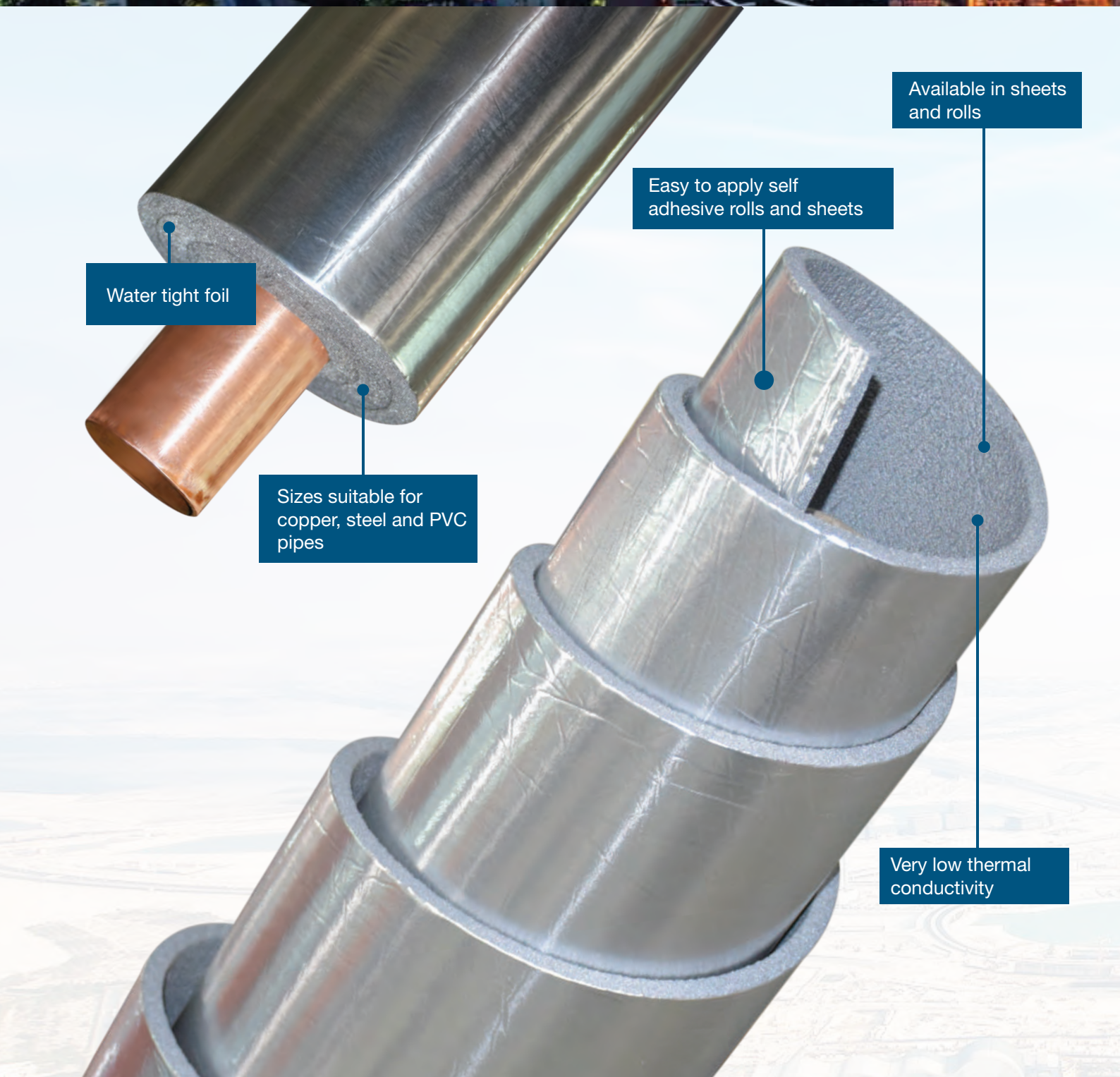
FLEXICELL
XLPE INSULATION

CROSS LINKED CLOSED-CELL POLYETHYLENE INSULATION FOAM

AS/NZS 1530.3

E361452


Available in sheets and rolls
Easy to apply self adhesive rolls and sheets
Water tight foil
Sizes suitable for copper, steel and PVC pipes
Very low thermal conductivity

Flexicell XLPE is a closed cell cross linked polyethylene foam, commonly used as thermal insulation to protect against heat loss, condensation and sound propagation.

Flexicell XLPE is reinforced with a heat bonded aluminum foil and is available with a factory applied adhesive liner.

FIRE AND SMOKE PERFORMANCE

Flexicell XLPE meets AS1530.3 - early fire hazard properties of materials.

EXCELLENT THERMAL EFFICIENCY

Flexicell XLPE has a very low thermal conductivity, guaranteeing high performance in thermal insulation applications. Further to this, as Flexicell XLPE is closed cell, it also provides excellent levels of condensation control.

ENVIRONMENTALLY FRIENDLY

Flexicell XLPE is a CFC and HCFC free product. It does not contain, nor use in its production, any substances that contribute to Ozone Depletion Potential (ODP). Flexicell XLPE is fibre free and has a very low Volatile Organic Compound (VOC) emission level.

ZERO WATER VAPOUR PERMEABILITY

Condensation control is a key performance aspect of any insulation. Flexicell XLPE can be installed without any additional vapour barriers due to its closed cell construction, and watertight aluminium foil barrier. Flexicell XLPE's excellent protection against condensation ensures the long-term thermal efficiency of the insulation.

EASE OF INSTALLATION

Flexicell XLPE is fast, safe and easy to install. It is more flexible than other pipe insulation products, including glasswool, polystyrene and other extruded foams. This results in greatly reduced installation time, thereby affording significantly increased productivity.

TECHNICAL DATA

Description: Flexible closed cell insulation material with high water vapor diffusion resistance and low thermal conductivity.
Material: Cross linked polyolefin foam with density of 25 ±3 kg/m^3 (foam core only) and grey color.
Self-adhesive coating: Pressure sensitive adhesive coating.
Applications: Thermal insulation / protection for pipes, air ducts, vessels (incl. elbows, fittings, flanges, etc.) and process equipment to prevent condensation, save energy and block sound propagation.

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 -80 °C*	 +105 °C -80 °C	 DIN EN 14706 ASTM C1427
Thermal Conductivity (W/mK) at 23 °C	0.032	ASTM C518
Water Vapour Permeance [perms]	0	ASTM E96
Water Absorption (g/cm^2)	0.00008	JIS K6767
Fire Performance Ignitability Spread of Flame Heat Evolved Smoke Developed	 0 0 0 1	 AS/NZS 1530.3
Reaction to Fire	Class O	BS 476 Part 6 & 7
Resistance to Corrosion	Excellent	ASTM B117
Compression Set	35.77% (25mm)	ASTM D3574
Resistance to Fungi	Excellent	ASTM G21
Resistance to Bacteria	Excellent	ISO 22196
Chemical Analysis	Very Good	ASTM C871
Emission (VOC level)	< 4 µg/m^2/hr	ASTM D5116
Environment Friendly Ozone Resistance Ozone Depletion Potential (ODP) Global Warming Potential (GWP) 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 products only	
Smoke and Toxicity 1. Smoke Toxicity Levels 2. Toxic Smoke (R-value)	 Passed 0.11	 IMO MSC 307(88) Part 2 & 5 BS 6853

*__XLPE__ foam is generally resitant to UV radiation. However, for all outdoor application it must be protected with additional weather resistant cladding. From our range of products only **FLEXICELL N Clad** products are suitable for outdoor conditions additional protection.

Flexicell- AUS/4-2019/ Version-0.2.2

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.

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

Australia Branch Address
18 Baddeley Circuit, Croydon
3136 Victoria, Australia

Hira INDUSTRIES