

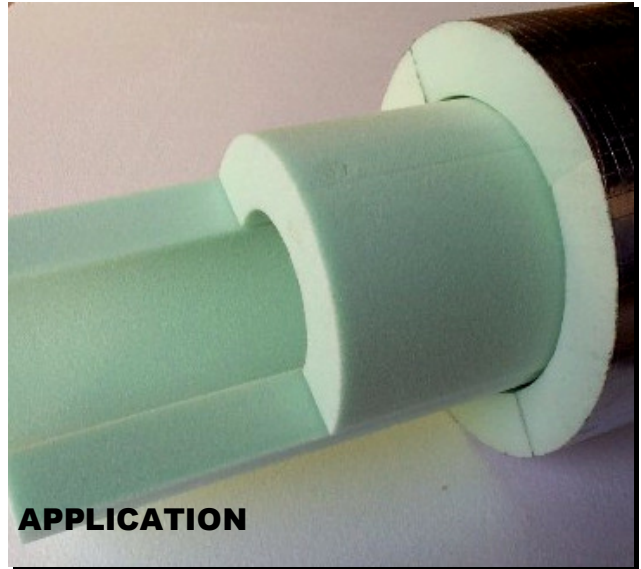
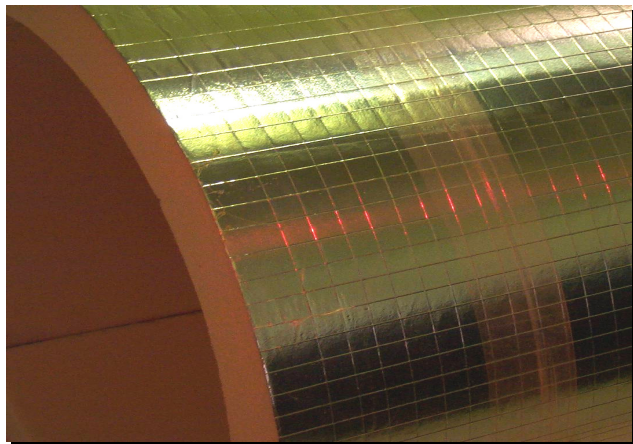
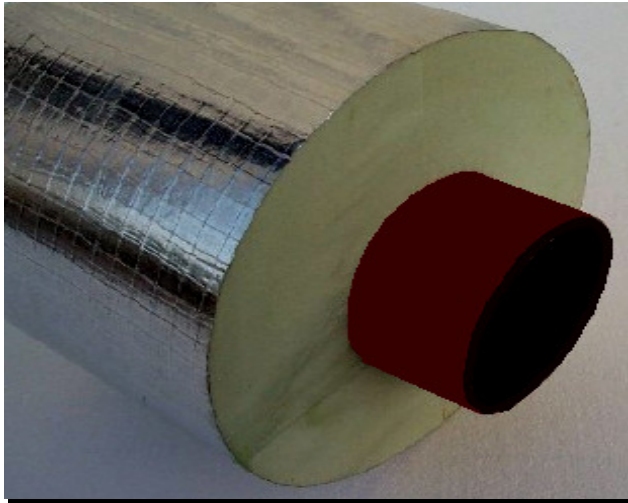
POLYURETHANE PIPE AND SLAB INSULATION

GENERAL DESCRIPTION

Rigid Polyurethane Foam in a wide range of densities for different applications.

1- Density 35 to 65Kg/m³ for Pipe, Slab, Vessel, Tank Insulations.

2- Density 80 to 120Kg/m³ for use in thermal supports.



POLYURETHANE foam can be used in many different applications in the process plant and air-conditioning industries. Standard foam meets the requirements of the German specification DIN 4102, Class B3. If a higher performance level is required we can supply foam meeting DIN 4012, Class B2.

Where higher temperatures and/or better fire performance is required we recommend the use of GCT-Polyisocyanurate insulations.

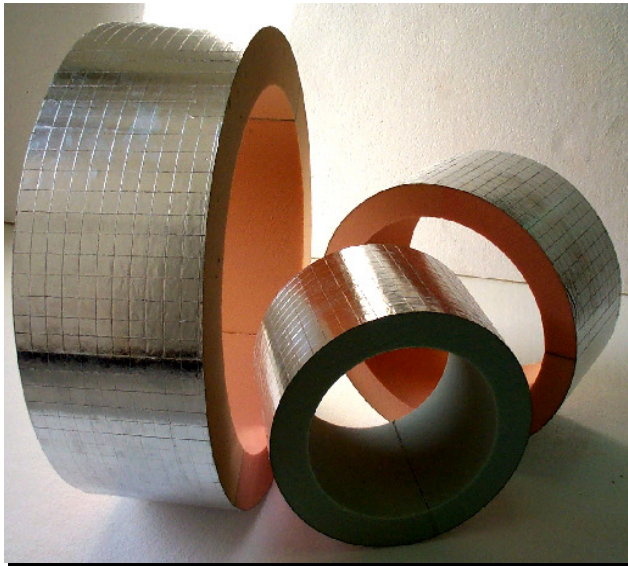
Polyisocyanurate meets the requirement of BS 476; part 7, Class 1 and ASTM E-84.

POLYURETHANE PIPE AND SLAB INSULATION

DENSITY

35Kg/m³ to 65Kg/m³-Density for Pipe, Vessel, Tank and Slabs.

80Kg/m³ to 120Kg/m³-density for thermal supports.

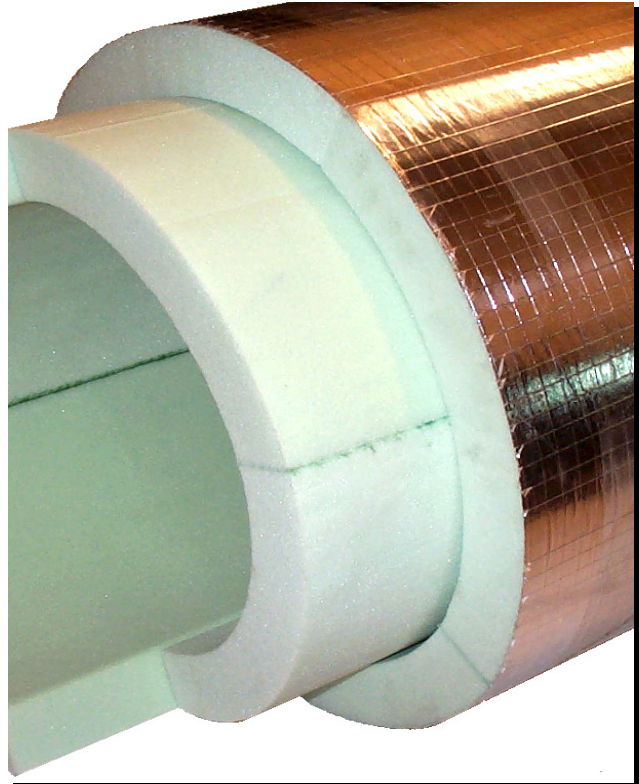


AVAILABILITY

Slabs

Pipe Sections, Pipe Fittings, Including elbows, tees, valve covers etc...

Product may be un-faced or faced with reinforced Aluminium foil (Class 1) or (Class 'O').



SIZE

Pipe Sections up to 150mm O.D. supplied in two half section.

Sizes over 150mm O.D. can be supplied in half sections or segments as required.

Slabs 1000 mm x 1000 mm or 2000 mm x 1000 mm.

POLYURETHANE PIPE AND SLAB INSULATION

TECHNICAL SPECIFICATION

Properties	Test Method	Value	Value	Value	Value	Value	Value
Core Density (Kg/m3)	ASTM D-1622	PUR 35	PUR 50	PUR 65	TS 80	TS 100	TS 120
Thermal Conductivity@10°C(W/m°C)	ASTM C-518/91	0.023	0.023	0.024	0.028	0.030	0.032
Compressive Strength (KN/m2)	ASTM D-1621						
Parallel to rise		172	350	490	750	1100	1400
Perpendicular to rise		150	300	450	600	950	1200
Tensile Strength (KN/m2)	ASTM D-1623						
Perpendicular to rise		220	385	520			
Shear Strength (KN/m2)							
Perpendicular to rise		138					
Closed cell content (apparent vol,%)	ASTM D-2856	95	95	95	96	98	98
Water Vapor Transmission(perm-inch)	ASTM C-518/91	1.5	1.5	0.5	0.4	0.4	0.4
Water absorption % w/v	ASTM D-2842	2.25	2	1.5	1.3	1	0.8
Dimentional Stability (% linear Change)	ASTM D-2126						
7 Days @ +70 °C		2.6	2	1.5	1	1	1
7 Days @ 158 °C		2.6	2	1.5	1	1	1
Upper Temperature Limit °C		110	110	140	140	140	140
Linear Coefficient of Expansion per °C	BS 4370	7 x 10 ⁻⁵	7 x 10 ⁻⁵				
Flammability Class	BS 4102	B2	B2	B2	B2	B2	B2
Average Time & Extent of Burning(mm)	ASTM D 635:1991	< 5	< 7	< 7	7	7	7