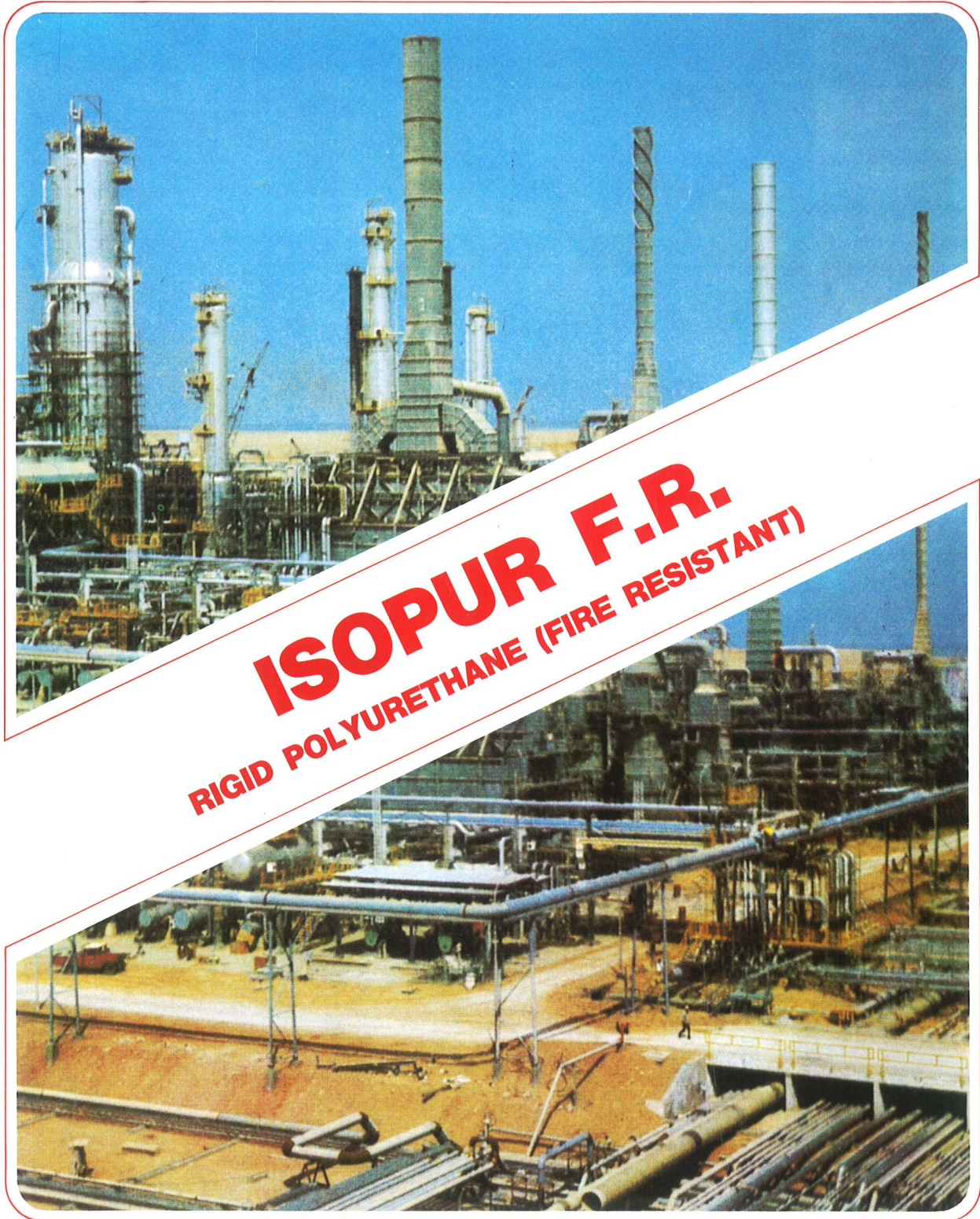




ISOFOAM®

PRODUCT DATA SHEET



High Performance - Energy Saving Insulation

GENERAL DESCRIPTION

ISOPUR F.R. Rigid Polyurethane foam is produced in accordance with international standards and specifications and is extensively used throughout the insulation spectrum.

ISOPUR F. R. is CFC II free in accordance with the Montreal Protocol regarding the mission/usage of Ozone Depletion Substances. PUR rigid foam is recognised as a most effective and economical insulation material.

ISOPUR F.R. enjoys good mechanical properties and provides good long term and durable performance.

It is fire resistant and is dimensionally stable across its wide application temperature range of -200°C to $+120^{\circ}\text{C}$, produced in a range of densities from 28 to 80 (Kg/m^3)

ISOPUR F.R. with its closed cell structure provides good water absorption resistance and low vapour transmission.

It is resistant to brine, petroleum, oil and most dilute acids and solvents.

It is also resistant to fungi growth and attack by rodents and pests.

TYPICAL APPLICATION

ISOPUR F.R. is ideally suitable for the insulation of buildings, houses, cold stores and prefab units etc.

It can be further utilised for process service piping and equipment.

ISOPUR F.R. can be injected into panels and produced with a variety of laminated finishes, as detailed below.

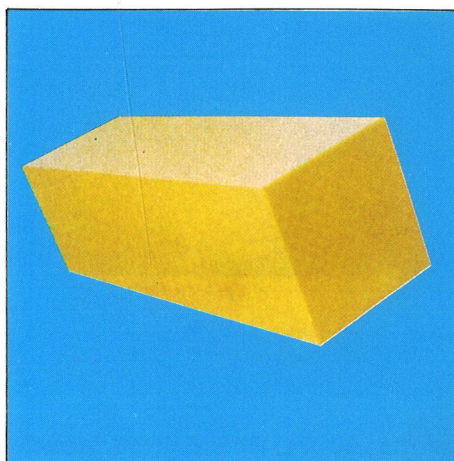
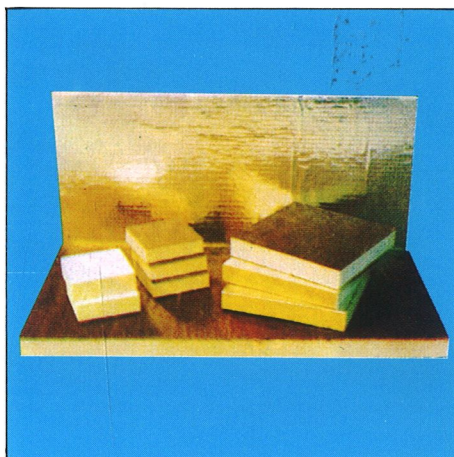
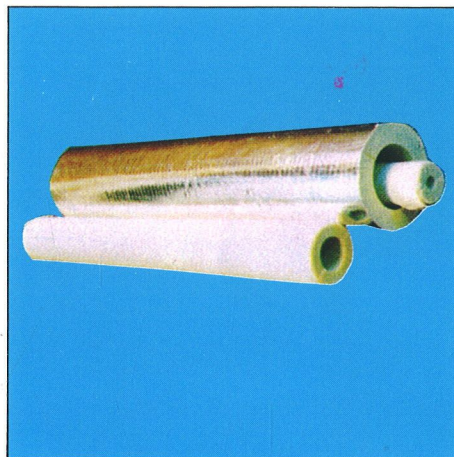
AVAILABILITY

Standard Sheet Size	Standard sizes cut pipe sections
1220 x 2440	to suit steel and light guage
1000 x 2000	copper pipes faced or
610 x 1220	unfaced

ISOPUR F.R. available in blocks, contoured shapes, pipe sections and with foil, foil laminates, canvas and felt, etc., finishes to both section and slab.

Available direct from **ISOFOAM** or via a network of local stockists.

All enquiries for Non-Standard products and insulation queries should be addressed to the Technical Services Department at **ISOFOAM**.



TECHNICAL DATA TYPICAL PROPERTIES

Standard			
Nominal Density (Kg/m ³)	ISO 845	32	60
Thermal conductivity at 10° (W/m°C)	ASTM C518	0.023	0.025
Closed Cell Content (%)	ASTM D2586	95	95
Compressive Strength (KN/m ²)		175	550
Tensile Strength (KN/m ²)		275	685
Shear Strength (KN/m ²)	ISO 844	175	350
Flexural Strength (KN/m ²)		290	800
Maximum Temperature limit (°C)		120	120
Linear Co-efficient of Expansion (Per°C)		8 x 10 ⁻⁵	8 x 10 ⁻⁵
Moisture Vapour Transmission (perm-inch)	ASTM C 355	2.5	2.5
Water Absorption (%W/V) 7 days - 50mm Head	ASTM D 2842	4	4
Dimensional Stability (% linear change) - 20°C for 24 hrs + 110°C for 24 hours + 70°C - 100% R. H. for 24 hrs	ASTM D 1622	Negligible 1 1	Negligible 1 1
FIRE PROPERTIES			
BS 4735: 1974/ASTM D 1692-74 Horizontal Burning Extent Burn (mm)	ASTM D 1622	40	40
BS 476 Part 5: 1979 Ignitability		Class P	Class P
DIN 4102/ASTM E84 Flame Resistance		B 2	B 2
BS 476 Part 6 Fire Propagation Partial index Total index		30 40	30 40
BS 476 Part 7 Spread of flame		Class 4	Class 4

All above properties are determined in accordance with the relevant method in BS, 4370 unless otherwise stated.

Further details available on request

The value given against the above properties are typical and are not meant to imply specification limits and should not be used for this purpose without reference to **ISOFOAM**.

This leaflet cancels and supercedes all previous additions. We reserve the right to amend specifications without prior notice. Whilst the information contained in this leaflet is true and accurate to the best of our knowledge and belief, all liability for errors and omissions, damage or loss resulting herefrom is hereby excluded. Recommendations for use should be verified as to stability and compliance with actual requirements, specifications and any applicable laws and regulations.