



Polyisocyanurate

Rigid Foam Data Sheet

GENERAL

RIGIFOAM offers Polyisocyanurate (PIR) foam with high performance in the following applications:

- Petro-chemical and process plant insulation
- Industrial insulation of pipe and vessels
- High fire risk application
- Shipping and off-shore installations
- Building panels
- Chilled water pipe lines for HVAC in multiple story buildings

CHARACTERISTICS

- RIGIFOAM PIR32HC has excellent thermal conductivity and high compressive strength
- Low flame spread and smoke emission, hence reducing fire risk, index greater >300
- Exhibits very good dimensional stability between 140°C and -100°C and can therefore be recommended with confidence in this temperature range
- Highly chemical resistant, particularly to hydrocarbons and solvents
- Eco-friendly, conforms to the Montreal and Kyoto Protocols, regarding OZONE depletion and global warming
- Thermosetting foam, does not soften, melt or drip
- Available in higher densities

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TECHNICAL DATA (typical 32KG/m³)



DESCRIPTION

Can be supplied in sheet form and pipe sections.
PIR foams are fine cellular rigid foams.

DENSITY

32kg/m³ - minimum overall density
Core sample may exhibit variations of up to +10%
SANS 53165

COMPRESSIVE STRENGTH

With direction of rise - PIR32 220kPa
Variations of +10% may be found. SANS 53165

THERMAL CONDUCTIVITY

At 10°C Mean Temperature : 0.023w/m.K

FIRE PERFORMANCE

PIR32 has a high index of 300, hence is not reliant on fire retardants. Reduced smoke and toxic emissions is recommended for applications where good fire performance is required.

CLOSED CELL CONTENT

Minimum value: 90%

DIMENSIONAL STABILITY

At - 15°C max 1.0% Dimension Change
At 100°C max 1.5% Dimension Change
At 70°C and 95% RH max 2.0% Dimension Change
All tests are over a 24 hour period. Test to ASTM D2126

DIMENSIONAL TOLERANCE

Length and Width +/-2.0mm maximum
Thickness +/-1.0mm maximum

SANS 10177 part 9 (1100 C flame)

Result

Self-Extinguishing

YES

Flame spread

140mm

Heat contribution

0°C/min

Max Chimney Temp (above Ambient)

0°C

NES 713

Toxicity index deemed safe to use in confined areas

3.16

THE DISAVOWAL



The customer acknowledges and understands that after delivery, the goods shall have left the control of Rigifoam, and that he/she shall be responsible for the unpacking of and connection/ installation of the goods. The customer acknowledges that it is his/her further responsibility to ensure that a fully qualified and competent person is used to install the goods to ensure their effective operation. Failure by the customer to ensure the installation of the goods according to the written instructions of manufacturer and/or supplier, by a fully qualified and competent person, may result in the failure of the goods, injury, loss or damages to the customer. Accordingly, and in this event, Rigifoam accepts no responsibility for any loss or damages that might arise by reason of death or personal injury to any person engaged in the installation or use of the goods thereafter subject to the provisions of the Consumer Protection Act 68 of 2008.

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