



Polyurethane Rigid Foam Data Sheet

GENERAL

RIGIFOAM PU32 is a Thermosetting Polyurethane (PU) rigid foam offering the highest performance for the following applications:

- Thermal insulation
- Buoyancy
- Refrigerated/insulated truck bodies
- Decorative designing
- Cold room panels (core)
- Tank containers

CHARACTERISTICS

- **RIGIFOAM PU32HC** complies with Montreal and Kyoto Protocols, Zero OPD and Global warming
- Has excellent thermal resistance and very high compressive strength in relation to other insulation materials
- Can be supplied in sheet or pipe section form, to suit application requirements
- dimensionally stable in the range -120°C to $+120^{\circ}\text{C}$
- Is chemical resistant, therefore, giving a wide range of lamination procedures and adhesives (refer data sheet **Rigibond5**)
- Has a high level of closed cells, therefore, offering high levels of buoyancy
- Higher densities available to suit high mass loading in applications and structural strength

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TECHNICAL DATA (typical 32KG/m³)



DESCRIPTION

Rigid Polyurethane Closed Cell foam can be supplied in sheet form (slab stock) or pipe sections.

COMPRESSIVE STRENGTH

Parallel to rise: **RIGIFOAM PU32HC** 250kPa
Perpendicular to rise: **RIGIFOAM PU32HC** 150kPa
Variation of 10% may be found. SANS 53165

THERMAL CONDUCTIVITY

At 10°C: 0.023w/m.K

FIRE PERFORMANCE

RIGIFOAM PU32 is fire retardant and is self-extinguishing. RIGIFOAM PIR32 foam is recommended for any applications where high fire resistance is required.

DIMENSIONAL TOLERANCE

Length and Width +/-2.5mm
Thickness +/-1.5mm

DIMENSIONAL TOLERANCE

Can be used on Stainless Steel applications.

≤ 5 ppm ASTM: C781 – Titrimetric Test Method

DENSITY

32kg/m³ – minimum density. Core sample may exhibit variations of up to 10%. Test to SANS 53165.

CLOSED CELL CONTENT

Minimum value: 90%. SANS 53165

DIMENSIONAL STABILITY

At -15°C Dimension Change : <1%
At 100°C Dimension Change : <2%

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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