

# Technical Data Sheet

## ISOPIPE® TR

ISOPIPE TR - is an NBR based flexible elastomeric foam insulation designed for building insulation and refrigeration systems. Its special formula provides limited smoke propagation, in case of fire and high vapour diffusion resistance, as well as high performance and protection against energy loss.

Suitable for enclosed spaces such as elevators, tunnels, offices and factory premises.



| Properties                         | Technical Data   | TEST Methods  | Lab/ TEST Reports  |
|------------------------------------|--|---|--|
| <b>Thermal Conductivity (λ)</b>    | -20°C - 0.031 W/mk   | EN 12667  | Danish Technological Institute   |
|                                    | 0°C - 0.033 W/mk   |   |  |
|                                    | 20°C - 0.035 W/mk  |   |  |
|                                    | 30°C - 0.036 W/mk  |   |  |
| <b>Permeability (μ)</b>            | ≥10,000  | EN 13469, EN 12086  | self monitoring  |
| <b>Operating Temperatures (°C)</b> | -50°C to +110°C<br>(+85°C if System, Sheets, Rolls are glued to the object with its whole surface)                           | EN 14707<br>EN 14706  | MPANRW   |
| <b>Fire Rating (FR)</b>            | <b>Coil, Pipes, Slit &amp; Seal:</b><br>B-S2, d0<br>Class 0, Class 1<br>Class A or Class 1<br>BL -s2, d0<br>Low Flame Spread | EN 13501-1<br>BS 476 p.6 & p.7 UNI 8457<br>ASTM E 84<br>IMO RES.MSC 61 (67) FTP code, annex 1, part 5 | CSI Spa<br>Warrington Fire Research<br>Warrington Fire Research<br>Siemens Axiva supervised by Bureau Veritas MARINE Division, Bureau Veritas MARINE Division, LAPI, TUV Nordi Baltic Ltd, TNO, Swedcert |
|                                    | <b>System, Sheets, Rolls:</b><br>B-S3, d0  | EN 13501-1  | CSI Spa  |
| <b>Density (ρ)</b>                 | 60 Kgr/m <sup>3</sup> , ±10 Kgr/m <sup>3</sup>   | EN 13467 & EN 1602  | self monitoring  |
| <b>Closed Cells</b>                | 98.5%  |   |  |
| <b>Thickness (Tolerances)</b>      | <b>Coil, Pipes, Slit &amp; Seal:</b><br>6, 9 & 13mm: ±1%<br>19mm: ±2%<br>25, 30, 40 & 50mm: ±2%                              | PrEN 13467  | self monitoring  |
|                                    | <b>System, Sheets, Rolls:</b><br>6mm: ±1 mm<br>10, 13 & 19mm: ±1.5 mm<br>25, 32, 40 & 50mm: ±2 mm                            | EN 823  | self monitoring  |
|                                    | <b>Overlap Slit &amp; Seal:</b><br>120μm: ±1.5 μm  | DIN 53370   | self monitoring  |
| <b>Diameter Tolerance</b>          | <b>Coil, Pipes, Slit &amp; Seal:</b><br>Ø6 - Ø54: +1mm to +2mm<br>Ø60 - Ø76: +1mm to +3mm<br>Ø88 - Ø139: +1mm to +4mm        | PrEN 13467  | self monitoring  |
|                                    | <b>System, Sheets, Rolls:</b><br>Length: ±1.5% Width: ±2%  | EN 822  | self monitoring  |

The mentioned values are these which have been measured in our laboratory, under typical conditions. They can be modified without prior notice. You are kindly requested to assert their validity before any special use.

The technical information on ISOPIPE TR insulation products continues on the next page. →

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| Properties                                | Technical Data                   | TEST Methods                 | Lab/ TEST Reports |
|---|----------------------------------|------------------------------|-------------------|
| Dimensional Stability                     | 1.5 - 3%                         | EN 1604                      | self monitoring   |
| Fungi Resistance                          | Passed                           | ASTM G21                     | Quality Labs      |
| Bacterial Resistance                      | Passed                           | ASTM E2180                   | Quality Labs      |
| Tensile Strength (Pa)                     | >0.15 Mpa                        | EN ISO 1798                  | self monitoring   |
| Elongation at Break                       | >150%                            | EN ISO 1798                  | self monitoring   |
| Corrosion Resistance                      | Water soluble ions in accordance | EN 13468                     | ITC               |
| Weather Resistance                        | Good                             |                              |                   |
| Oil & Grease Resistance                   | Very good                        | ASTM D 471                   | self monitoring   |
| Noise Reduction                           | Up to 30dB                       | DIN 4109                     |                   |
| CFC, HFC, HCFC                            | Free                             |                              |                   |
| Odor                                      | Neutral                          |                              |                   |
| Adhesion for Slit & Seal                  | Overlap: 6 N/cm                  | NF EN 1464, ISO 4578 IOP 041 |                   |
|   | Self adhesive stripe: 6 N/cm     | FINAT NO 9 - IOP 043         |                   |
| Static Temperature Resistance Slit & Seal | 100°C continuous                 |                              |                   |

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## Product Range



Pipes

Slit & Seal

System

Sheets

Rolls

## A wide range of Applications



Heating

Plumbing

Air Conditioning

Refrigeration

Solar Energy

# ISOPIPE® S.A.

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