



Quality insulation
with a personal touch

TECHNICAL DATA SHEET NESTAAN® THERMOPIR HT

- Material :** CFC and HCFC free rigid insulating foam
- Availability :** NESTAAN® THERMOPIR HT foams are available in precutted shapes : slabs, pipe sections and various profiles or in blocks. The standard maximum width for this blocks and slabs is 125 cm. Other dimensions can be produced on request.
- Application :** High performance insulating material designed for use on pipework and equipment at cooperating temperatures ranging from -180° up to +200°C.

Physical properties :

| property | NESTAAN® THERMOPIR HT | unit | method |
|--|--|------------------------------|--|
| Core density | 42 (-2/+3) | kg/m ³ | ASTM D1622 |
| Thermal conductivity 21°C Thermal conductivity -168°C | 180 days: < 0,023 180 days: < 0,016 | W/m.K | ASTM C177 |
| Ozone Depletion Potential | 0 | ---- | ----- |
| Compressive strength | 20°C: >200 -165°C: > 280 | kPa | ASTM D1621 |
| Tensile strength E-modulus (-165°C) | 20°C: > 300 -165°C: > 265 < 11,25 | kPa MPa | ASTM D1623 |
| Closed cell content | > 92 | % | ASTM D2856 |
| Water absorption | < 2 | vol-% | ASTM D2842 |
| Water vapour permeability (38°C / 50% RH) | < 0,8 | g/m ² .h | ASTM E96 |
| Leachable chloride content | < 60 | ppm | ASTM C871 |
| Burning characteristics | Flame spread index: < 25 10/10 SE > 90% weight retention B2 | ---- ---- ---- ---- | ASTM D1692 ASTM D3014 DIN4102, T.1 |
| Expansion coefficient | 50.10 ⁻⁶ | mm/mm.K | ASTM D696 |
| Cryogenic thermal stress res. | > 1,5 | ---- | Holometrix - Netzsch |
| pH-value | 6 - 7 | ---- | ---- |
| Operating temperature | -180 to +200 | °C | ----- |

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Edition : 01-2014 / This edition replaces all previous technical data sheets

nhlab/THERMOPIRHTUK/0114