



Quality insulation  
with a personal touch

## TECHNICAL DATASHEET NESTAAN® POLYISOCYANURATE THERMAL INSULATION

### NESTAAN® THERMOPIR HT

<b>Material</b>	Yellowish rigid PIR foam.
<b>Availability</b>	NESTAAN® ThermopirHT PU foam is available in blocks, sheets or pre-cut shapes like pipe sections and various profiles. The standard dimension for the blocks: 260 x 100 x 64 cm.
<b>Application</b>	Higher temperature performance at general applications for insulating material regarding tanks, pipes, vessels, panels and other industrial purposes

	Value	Unit	Method
<b>Density</b>	40 – 45	kg/m <sup>3</sup>	ASTM D1622
<b>Thermal conductivity 10°C (λi)</b> Aged 180 days, 21°C	0,020-0,023 <0,023	W/m.K	ASTM C177
<b>Compressive strength parallel</b>	> 250	kPa	ASTM D1621
<b>Tensile strength</b> 20°C	> 300	kPa	ASTM D1623
<b>Dimensional stability</b> 70°C / 97 % RH -20°C – 48 h. +100°C – 48h.	< 1.5 < 1 < 1.5		ASTM D2126
<b>Closed cell content</b>	> 92	%	ASTM D2856
<b>Water vapour permeability</b> 37°C / 50% RH	<0,8	g/m <sup>2</sup> .h	ASTM E96
<b>Fire behaviour</b> Flame spread index Euroclass	< 25 E		ASTM E84 EN13501-1
<b>Water absorption</b>	< 2	Vol-%	ASTM D2842
<b>Linear expansion coefficient</b>	50-70 . 10 <sup>-6</sup>	m/m.K	ASTM D969
<b>Service temperature</b>	-183 / +150	°C	

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