

TECHNICAL DATA SHEET

BOARD PRO-100 BIO

Board Pro 100 BIO is manufactured from long fibre. It exhibits outstanding insulating properties at high temperatures. The board features excellent thermal stability and retains its original soft fibre structure up to the maximum temperature of continuous use. Board Pro 100 BIO does not contain any binders or humidifiers and produces no smoke or odour when first heated. It is flexible easy to cut, mould and install.

CLASSIFICATION TEMPERATURE

1300°C

FEATURES

- Easy to use
- Homogeneous structure
- Fire resistant
- Good performance
- Easy to process
- Low thermal conductivity
- High erosion resistance and stiffness
- Excellent hardness properties
- Excellent thermal shock resistance
- Low heat accumulation, light weight
- Resistant to liquid iron and steel
- Exempt from any carcinogenic classification according to note Q of Directive 97/69 EC
- No reaction with alumina bricks when applied within the range of typical operating temperatures
- Free of binders and wetting agents



Classification temperature	°C	1260
Properties measured at ambient conditions (23°C / 50 % relative humidity)		
Colour		white/yellow-brown
Density	kg/m ³	310**
Bending strength	MPa	1.0**
Compressive stress at 10% relative deformation	MPa	0,35
High temperature performance*		
Loss on ignition after 2 hours annealing at 800 °C	%	5,5
Constant linear shrinkage (ASTM C-356) after 24 hours isothermal annealing at grading temperature:	%	3
Thermal conductivity (ASTM C-201) at medium temperature:		
300°C	W/m.K	0,07
400°C	W/m.K	0,08
600°C	W/m.K	0,11
800°C	W/m.K	0,15
1000°C	W/m.K	0,2

THICKNESS TOLERANCE

Less than 10mm: +/- 0.5mm (except for Board Pro 100: +/- 1mm)

Between 10mm and 20mm: +/- 1mm,

From 25mm to 50mm: +/- 2mm

Above 50mm: +/- 4mm

The values indicated above are typical average values obtained in accordance with current test methods and are subject to normal variations during the production process. They are provided as technical support and are subject to change without notice. Therefore, the data contained herein should not be used for specification purposes.

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