

TECHNICAL DATA SHEET

BOARD PRO-100, BOARD PRO-115

Board Pro is a refractory fibre board, supplied in standard thickness panels made from a moistened mass of refractory fibres and binders with a low organic content. The combination of different refractory fibres and organic and inorganic binders in varying proportions enables panels to be selected for use at different temperatures. The gases that can be produced in some types of thermal equipment during the firing of the binders are released to the surface of the board in a short time and are therefore easy to remove.



AVAILABLE VERSIONS:

Board Pro-100: The product is recommended for all applications up to a maximum temperature of 1260°C and where exposure to direct flame or high temperature gas is possible.

Board Pro-115: The product features uniform thickness and flexural and compressive strength, both before and after annealing. Can be used up to a maximum temperature of 1400°C. Ideal as a working lining, resistant to direct flame and abrasion by hot gas. Maximum continuous use temperature depends on the application.

FEATURES

- Stability at high temperatures
- Low thermal conductivity
- Low heat accumulation coefficient
- Rigidity and high cohesion enable machining and cutting
- Resistance to sudden temperature changes
- Resistant to abrasion
- Direct contact with flame possible
- Easy to use

APPLICATION

These versatile panels can be used wherever a rigid, self-supporting, insulating product with good resistance to physical damage is required.

- Ceramics industry (oven liners and carriage insulation)
- Glass industry
- Duct insulation
- General purpose thermal barriers
- High temperature insulation

		Board Pro-100	Board Pro-115
Classification temperature	°C	1260	1400
Properties measured at ambient conditions (23°C / 50 % relative humidity)			
Colour		white/yellow-brown	white/yellow-brown
Density	kg/m ³	310**	310
Bending strength	MPa	1.0**	0,9
Compressive stress at 10% relative deformation	MPa	0,35	0,3
High temperature performance*			
Loss on ignition after 2 hours annealing at 800 °C	%	5,5	3,5
Constant linear shrinkage (ASTM C-356) after 24 hours isothermal annealing at grading temperature:	%	3	3,7
Thermal conductivity (ASTM C-201) at medium temperature:			
300°C	W/m.K	0,07	0,07
400°C	W/m.K	0,08	0,08
600°C	W/m.K	0,11	0,11
800°C	W/m.K	0,15	0,15
1000°C	W/m.K	0,2	0,2
*Values valid for 50mm thickness.			
**Values of 330 and 1.5 values for thicknesses less than 20mm.			

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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