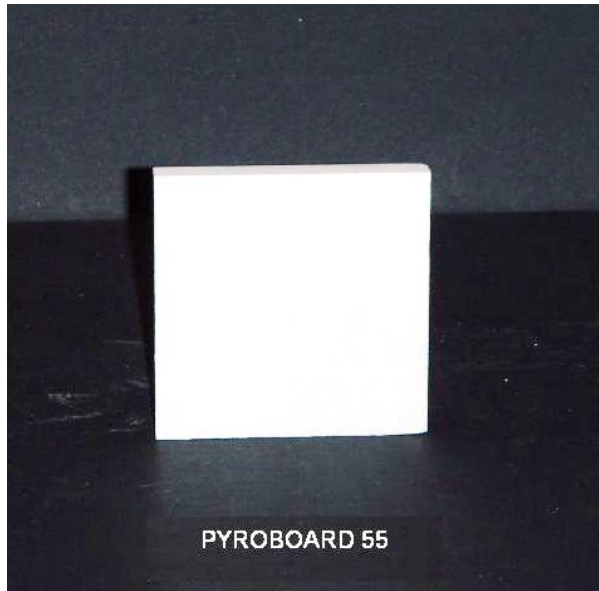


**PYROBOARD 55**  
TECHNICAL DATA SHEET



**Description:**

**Pyroboard 55** is a low expansion, high strength reinforced silica matrix composite. Designed for use as a high strength insulator in induction hot press applications, it is ideal for any application which require a material with superior hot strength at temperatures as high as **1200°C (2192°F)**. Beyond 1200°C (2192°F) it begins to transform into a crystalline structure.

It maintains its properties up to 1650°C (3002°F) providing that there is no significant fall in temperature. At these elevated temperatures, this material will exhibit surface glazing, but will retain its strength and integrity.

**Pyroboard 55 exhibits a very low thermal coefficient of expansion (0.3 x 10<sup>-6</sup> °C)** which provides remarkable resistance to the thermal shock up to 1200°C (2192°F) in an oxidizing atmosphere

and permits its use with rapid variation in temperature in that zone.

Pyroboard 55's very low thermal expansion coefficient and high density combine to give it thermal shock resistance not found in other structural ceramic composite materials. These properties give it much greater life in most hot pressing and induction heating applications. Pyroboard 55 also exhibits exceptional non-wetting properties when used in contact with molten conveying, containing and forming

**Applications.**

- Dams,
- Spouts, Floats, Launderers, Head Boxes, Baffles,
- Headers, Tips, Rings, Distribution Boxes, Stoppers,
- Basins, Snouts, Transition & Orifice Plates and Hot

**CARATTERISTICHE TECNICHE:**

<b>Size</b>	mm	915x610
<b>Density</b>	g/cm <sup>3</sup>	1,45
<b>Operating Temperature</b>	°C	1000
<b>Compressive Strength</b>	MPa	48
<b>Flexural Strength</b>	MPa	30,2
<b>Brinell Hardness</b>		87
<b>Coefficient of Thermal Expansion</b>		0,3x10 <sup>-6</sup> /°C
<b>Organic Content</b>	%	0
<b>Shrinkage 24 h</b>		At 800°C 0,1 – at 1100°C 4,9
<b>Thermal Conductivity</b>	W/m°K	At 800°C 0,67 - at 1000°C 0,75
<b>Dielectric Strength</b> ASTM D-149-95	KV/mm	1,68
<b>Thickness</b>	mm	From 6,4 to 25,5

**Pyroboard 55 is 100% organic free and contains no refractory ceramic fibers.**