



BASFF THERMAL ENGINEERING SRL

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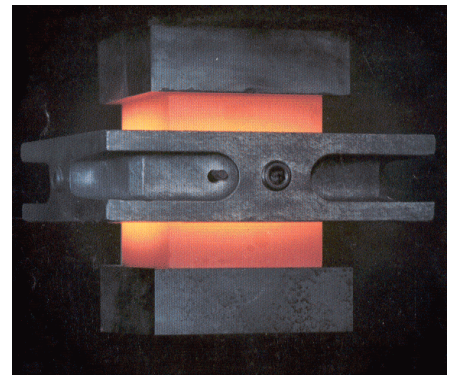
PYROBOARD 55 DATA SHEET

PYROBOARD 55 is a newly developed rigid high strength 99.7% SiO₂ matrix. It can be considered a real substitute of Sindanyo CS51 per high temperatures. Engineered and produced with low thermal expansion raw material, PYROBOARD exhibit greater thermal shock resistance than alumina matrix composites and high temperature calcium silicate matrix materials. It retains 96% of original strength throughout 1000 °C, it is 100% inorganic and undergoes little or no outgassing on heating. PYROBOARD is not wet by molten aluminium.

It consists of SiO₂ 99%, Al₂O₃ 0,1%, Organic 0%

APPLICATIONS:

- Structural insulation on furnaces and ovens
- **Primary Insulation in hot presses to 1100 °C:**
 - **Diamond sawblade segments**
 - **Powder metal hot pressing/ sintering**
 - **Cuttings Tools**
- Molten non ferrous metal contact
- Hot flue linings



AVAILABILITY:

- In sheets mm 915x615 in thickness mm 6-9-12-15-20-25

CHARACTERISTICS:

- Density: 2,1 g/cm³
- Maximum use temperature: 1100 °C
- Charpy Impact Strength 8-10 FtLb/In
- Compressive Strength 9500 psi
- Flexural Strength 4300 psi
- Hardness, Durometer D 87
- Thermal expansion coefficient 0,3x10⁻⁶ /°C
- Thermal Conductivity:
 - at 400 °C: 0.61W/mK
 - at 800 °C: 0,67W/mK
 - at 1000 °C 0,75 W/mK