

Technical Data Sheet

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BRA-BOARD® HT 175

... Hightech – Insulation Material
for high temperatures

Product Specification

The grade BRA-BOARD® HT 175 is a high temperature resistant, non-flammable and reinforced silicate material.

Special Material Characteristics

- **Very high temperature resistance**
- **Good insulation effect**
- **High compressive strength**
- **Low shrinkage**
- **Thermal shock resistant (after thermal pre-treatment)**
- **Non-flammable**
- **Resistant against aggressive gases (industrial furnaces, soldering units, chimneys)**

Range of application

BRA-BOARD® HT 175 offers an outstanding temperature resistance compared to other silicate materials.

Typical applications:

- In the construction of chemical plants
- In thermal high stressed laboratory equipment
- In arc chambers
- as melting pot insulation
- In foundries

Important remark:

The material is delivered with a residual moisture depending on the relative humidity of the environment. For some applications drying at 130 °C to 150 °C for approx. 12 hours is recommended in order to avoid cracks. Processing instructions are available upon request.

Please note that the nominal thickness of this material may show dimensional deviations up to 7%.

Delivery Information:

Standard thickness: 10 - 38 mm

Technical data*:

Max. service temperature		
• long-term	1000	°C
• short-term	1100	°C
Compressive strength (EN ISO 604)		
• at ambient temperature	34	N/mm ²
• at 200 °C	30	N/mm ²
Coefficient of thermal conductivity (DIN 52 612)		
• at ambient temperature	0,22	W/mK
• at 200 °C	0,27	W/mK
Linear coefficient X- and Y-direction	4·10 ⁻⁶	1/K
Z-direction (DIN 53 752)	4·10 ⁻⁶	
Flexural strength (EN 63)		
• at ambient temperature	20	N/mm ²
Moisture absorption / 24 h DIN 53 495	20	%
Density	1,55	g/cm ³

*) Further technical details and machining recommendation upon request



Specifications are subject to alteration due to technical development. The standard values given in this data sheet are not part of any contract.