



DESCRIPTION

Cervac Boards are rigid products made from Fiberfrax® Ceramic Fibre. Boards are vacuum formed from fibre containing slurry with organic & inorganic binders and mineral fillers. These are manufactured over a wide range of grades, densities, hardness, strengths, sizes & thicknesses.

These boards may be used as individual component of furnace linings or as hard hot face layer for Durablankets or as back-up insulation.

SHAPES

By vacuum forming, a wide range of sizes and forms such as cones, sleeves, floats, observation / sight / peep doors tiles, etc. can be produced according to customer requirements.

GENERAL CHARACTERISTICS

Cervac Boards have the following outstanding characteristics :

- Low thermal conductivity & heat storage
- Highly resistance to thermal shock
- High temperature stability
- Resistance to erosion
- Easy to cut / machine with standard tools

TYPICAL APPLICATIONS

- High temperature furnace and kiln linings
- Back-up insulation for castable & bricks
- Hot gas duct liner
- Trough liners & covers
- Observation / sight / peep doors & plugs
- Shapes for aluminium industry

Any new and/or special use of these products, whether or not in an application listed in our literature, must be submitted to our technical department for their prior written approval.

TYPICAL PRODUCT PARAMETERS

| Cervac Board | Z | S | HD |
|---|-----------------|-----------|-----------|
| Typical Chemical Analysis (fibre wt. %) | | | |
| Al ₂ O ₃ | 28 - 32 | 38 - 42 | 37 - 41 |
| SiO ₂ | 53 - 59 | 57 - 61 | 58 - 62 |
| ZrO ₂ | 12 - 14 | - | - |
| Fe ₂ O ₃ + TiO ₂ | < 1 | < 1 | < 1 |
| Others | < 1 | < 1 | < 1 |
| Loss on ignition (wt. %) | 3 - 6 | 3 - 6 | 3 - 6 |
| Physical Properties | | | |
| Classification Temperature (°C) | 1425 | 1260 | 1260 |
| Density (kg/m ³) | 320 - 384 | 320 - 384 | 416 - 480 |
| Hardness Shore Scale (min.) | 40 | 40 | 50 |
| Flexural Strength (kg/cm ²) | Typ. | 10.5 | 10.5 |
| | Spec. | 7 | 7 |
| Compressive Strength (kg/cm ²) | Typ. 10% Comp. | 3.5 | 3.5 |
| | 25% Comp. | 7 | 7 |
| | Spec. 10% Comp. | 2.8 | 2.8 |
| | 25% Comp. | 5.5 | 5.5 |

The above strengths are for thickness upto 25mm, for higher thickness the strength will be lower.

Thermal Conductivity (W/mK)

Mean Temp.

| | | | |
|---------|------|------|------|
| 250 °C | 0.10 | 0.10 | 0.11 |
| 550 °C | 0.11 | 0.11 | 0.12 |
| 850 °C | 0.14 | 0.14 | 0.15 |
| 1000 °C | 0.19 | 0.19 | 0.20 |

Thermal Conductivity figures are empirical values (average) based on experience.

Permanent Linear Shrinkage (%) 24 Hour Soak

Temp.

| | | | |
|---------|-----|-----|-----|
| 1100 °C | - | 1 | 1 |
| 1200 °C | 2 | 2.5 | 2.5 |
| 1300 °C | 2.5 | - | - |
| 1400 °C | 3 | - | - |

For specification add 0.5% to above shrinkage value.

Water Repellant boards are available in Z, S & HD Grade.

Information contained in this publication is for illustrative purposes only and is not intended to create any contractual obligation. Further information and advice on specific details of the products described should be obtained in writing from a Unifrax Corporation company (Unifrax India). Unifrax maintains a continuous programme of product development and reserves the right to change product specifications without prior notice. Therefore, it maintains at all times the responsibility of the customer to ensure that Unifrax materials are suitable for the particular purpose intended. Similarly, insofar as materials not manufactured nor supplied by Unifrax are used in conjunction with or instead of Unifrax materials, the customer should ensure that all technical data and other information relating to such materials has been obtained from the manufacturer or supplier. Unifrax accepts no liability arising from the use of such materials. All sales made by a Unifrax Corporation company are subject to that company's Terms and Conditions of Sale, copies of which are available on request.

AVAILABILITY

| Thickness (mm) | Pieces per Carton |
|--|-------------------|
| Size : 500 x 1000 & 600 x 900 | |
| 6 | 20 |
| 12 | 11 |
| 19 | 7 |
| 25 | 6 |
| 38 | 4 |
| 50 | 3 |
| 75 | 2 |

Other thicknesses / sizes may be available on request subject to minimum order requirement.

SHAPES



Classification temperature refers to the maximum short term temperature limit. The maximum continuous use limit depends upon application conditions. For certain applications continuous use temperature limits may be significantly reduced. For assistance or clarification please contact your nearest Unifrax Engineering office.

HANDLING INFORMATION

A Material Safety Data Sheet has been issued describing the health, safety and environmental properties of this product, identifying the potential hazards and giving advice on handling precautions and emergency procedures. This must be consulted and fully understood before handling, storage or use.

Supplied by: