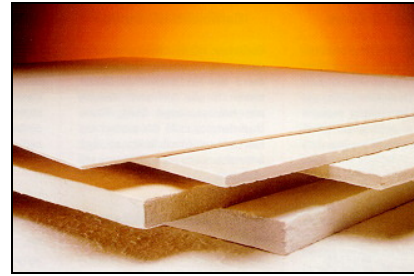


FIBERFRAX DURABOARD 1500

Description

Fiberfrax Duraboard products are manufactured from Fiberfrax refractory ceramic fibres, blended with specially selected inorganic and organic binders to give rigid boards with exceptional characteristics.

Fiberfrax Duraboard 1500 is produced from a blend of Fiberfrax and high alumina polycrystalline fibres. This combination increases the continuous operating temperature capability, provides very low shrinkage at elevated temperatures, whilst maintaining excellent insulating properties. Fiberfrax Duraboard products are available in a wide range of sizes and thicknesses.



General characteristics

Fiberfrax Duraboard 1500 has these outstanding characteristics:

- High temperature stability
- Low thermal conductivity
- Resistance to thermal shock
- Resistance to erosion
- Easy to cut with standard tools
- Low warpage

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 applications

- High temperature furnace and kiln linings
- Rigid high temperature gaskets and seals
- Heat shields
- Gas boiler combustions chamber linings

Chemical Analysis (Fibre wt.%)

| | |
|---|-------------|
| SiO ₂ | 44.0 – 50.0 |
| Al ₂ O ₃ | 49.0 – 55.0 |
| Alkalis | <0.25 |
| Fe ₂ O ₃ + TiO ₂ | <0.50 |

Physical properties

| | | | |
|----------------------------------|---|-------------|-------------------|
| Colour | : | White / tan | |
| Product density | : | 230 | kg/m ³ |
| Modulus of rupture (as received) | : | >500 | Kpa |
| Use limit* | : | 1500 | °C |
| Loss on ignition | : | <7.0 | wt.% |

*Use limit refers to the maximum short-term temperature limit. The maximum continuous use limit for boards depends upon application conditions. For certain applications continuous use temperature limits may be significantly reduced. For assistance or clarification please contact us. Where appropriate Physical Properties data measured according to EN 1094-1.

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Thermal conductivity (W/mK)

| | | |
|-------------------------|---|------|
| 1000°C Mean temperature | : | 0.16 |
| 1200°C Mean temperature | : | 0.20 |
| 1400°C Mean temperature | : | 0.26 |

Permanent linear shrinkage

(24 hour soak)

| | | | |
|--------|---|------|---|
| 1500°C | : | <4.0 | % |
|--------|---|------|---|

Availability

| Thickness | Sheet dimensions | Quantity sheets per carton | Loose sheets per pallet | Sheet dimensions | Quantity sheets per carton | Loose sheets per pallet |
|-----------|------------------|----------------------------|-------------------------|------------------|----------------------------|-------------------------|
| 10 mm | 610 x 1000 mm | 10 | 220 | 1250 x 1000 mm | 10 | 110 |
| 12 mm | 610 x 1000 mm | 8 | 176 | 1250 x 1000 mm | 8 | 88 |
| 18 mm | 610 x 1000 mm | 5 | 110 | 1250 x 1000 mm | 5 | 55 |
| 25 mm | 610 x 1000 mm | 4 | 88 | 1250 x 1000 mm | 4 | 44 |
| 50 mm | 610 x 1000 mm | 2 | 44 | 1250 x 1000 mm | 2 | 22 |

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

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.