


Thermax[®] BOARDS SF (1100 °C)
Technical specification

| | Product | SF 400 | SF 450 | SF 600 | SF 750 | SF 850 |
|---|-------------------|------------------|---------|-----------|-----------|-----------|
| Classification Temperature | °C | 1100 | 1100 | 1100 | 1100 | 1100 |
| Bulk Density (EN 1602) | kg/m ³ | 400 | 475 | 575 – 650 | 675 – 750 | 775 – 850 |
| Compressive Strength (EN 826) | MPa | 1.5 | 2.5 | 3.2 | 4.3 | 5.1 |
| Modulus of Rupture (EN 12089 B) | MPa | 0.8 | 1.2 | 2.3 | 3.1 | 4.0 |
| Thermal Conductivity (ASTM C201 – C182) | 200 °C | 0.14 | 0.15 | 0.20 | 0.21 | 0.23 |
| | 400 °C | 0.16 | 0.17 | 0.22 | 0.23 | 0.24 |
| | 600 °C | 0.18 | 0.19 | 0.22 | 0.24 | 0.24 |
| Reheat Shrinkage (1100 °C / 12h) | % | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 |
| Reversible Thermal Expansion, linear | % | 0.9 | 0.9 | 0.9 | 0.9 | 0.6 |
| Specific Heat Capacity | kJ/kg K | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 |
| Standard Dimensions (in mm) ⁽¹⁾ | length | 1000, 2440, 3100 | | | | |
| | width | 1250, 1000 | | | | |
| | thickness | 20 – 80 | 15 – 80 | 20 – 50 | 8 – 40 | 20 – 30 |
| Plane Parallelism +/- | mm | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Colour | | beige | beige | beige | beige | beige |

- (1) We are able to supply special formats and special thicknesses on request. We will be pleased to manufacture stampings, milled parts or cuttings according to your drawings.
- (2) The classification temperature is not to be equated with the maximum application temperature, in particular when physical conditions such as tensile or pressure loads are involved. For applications as high-temperature insulation, lower temperatures must always be applied. In these cases, our Engineering department will offer assistance and support.
- (3) Heat transmission calculations for this material can be requested from our Engineering department.

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