


**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
Density ± 5%	kg/m <sup>3</sup>	400	475	625	750	850
Cold compressive strength	N/mm <sup>2</sup>	1.5	2.5	4.0	6.0	6.5
Modulus of rupture	N/mm <sup>2</sup>	0.8	1.2	2.5	4.5	5.0
Thermal conductivity (at a medium temperature W/mK)	200°C	0.14	0.15	0.16	0.18	0.20
	400°C	0.16	0.17	0.18	0.20	0.22
	600°C	0.18	0.19	0.20	0.21	0.23
Thermal shrinkage (1100°C/12h)	%	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Thermal expansion, linear (20 – 700°C)	%	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) <sup>(1)</sup>	length	1000, 2440, 3100				
	width	1250				
	thickness	20 – 80	15 – 80	20 – 50	8 – 40	20, 25, 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.

**The information contained in this publication serves only for purposes of clarification, and is not intended to form the basis of contractual obligations.**

Further information and advice on specific details of the products described can be obtained in writing from Techno-Physik Eng. GmbH (Germany). The TechnoPhysik Group is consistently running product development programmes and reserves the right to modify product specifications at any time without notice. The customer/user is thus always obliged to ensure that the material form Techno-Physik Eng. GmbH is suitable for his specific purposes. The specified values are average figures determined from current production and are intended only for information. Warranty claims cannot be derived from these figures. We recommend to test the material for your application.

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