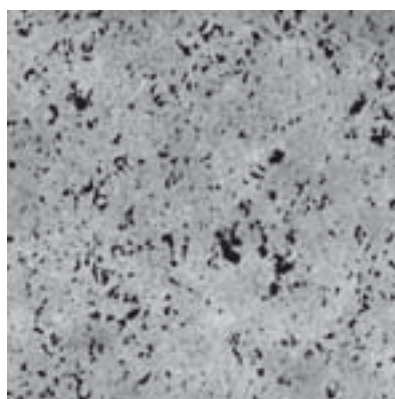
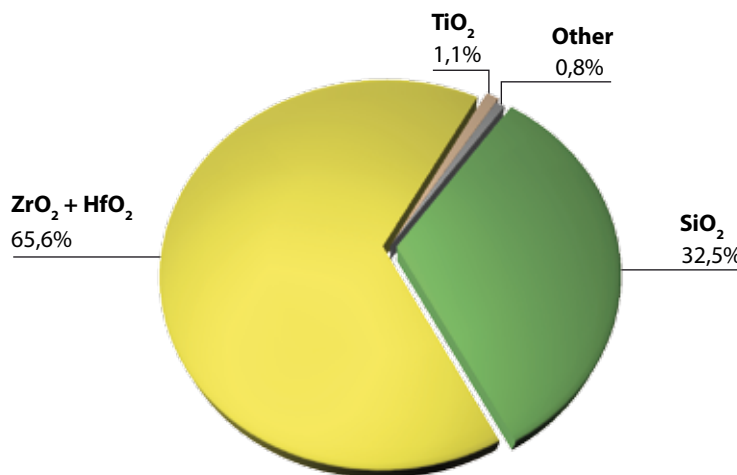


ZS 1300 THE MATERIAL

CHEMICAL ANALYSIS



TYPICAL CHEMICAL COMPOSITION



ZS 1300 dense zircon refractory is a very pure material consisting of zirconium silicate – Zr SiO₄. It is an excellent glass contact refractory due to its chemical inertness and the absence of discoloration, cord, and stones when used in contact with various technical and low alkali glasses.

PHYSICAL CHARACTERISTICS

International System	British Standard Units
Bulk density 4.33 g/cm ³ 270 pcf
Open porosity 0.5% 0.5%
Cold modulus of rupture 86 MPa 12473 psi
Cold crushing strength 400 MPa 58015 psi
Coefficient of thermal expansion 4.8 10 ⁻⁶ K ⁻¹ 2.7 10 ⁻⁶ F ⁻¹
Thermal conductivity at 1000°C 3.8 W.m ⁻¹ .K ⁻¹ 26.3 BTU in hr ⁻¹ ft ⁻² F ⁻¹
Thermal shock resistance low low

TYPICAL APPLICATIONS

ZS 1300 dense zircon is used extensively in the fiberglass industry as a glass contact refractory. Specific areas of use include melter and forehearth backup, bottom paving and subpaving; forehearth paving, siderails, flow blocks and bushing blocks.

In specialty glass applications, ZS 1300 is used as a glass contact refractory where glass quality or corrosion requirements are particularly severe such as borosilicates, glass ceramics, low alkali compositions and other technical glasses.

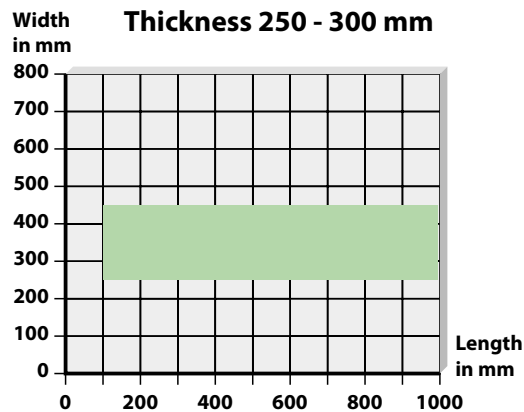
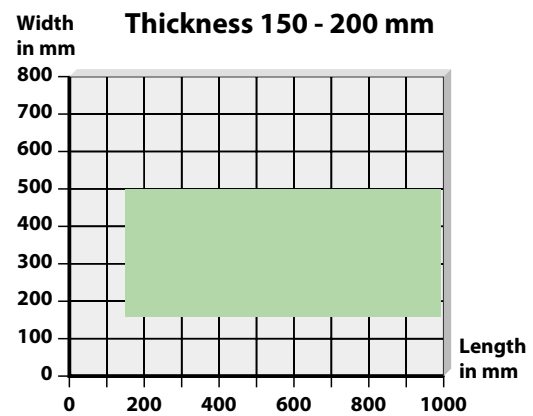
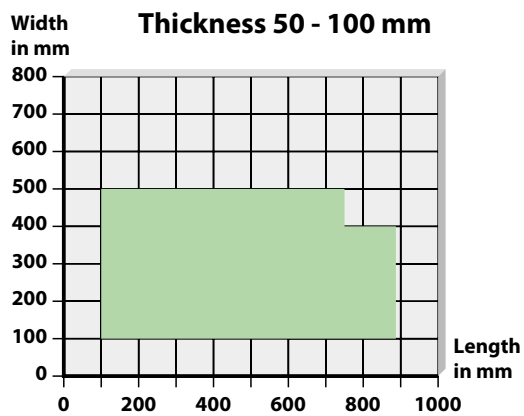
ZS 1300

THE MATERIAL



Flow block

SIZE CAPABILITY ESTIMATES



The data quoted above provides average values for current production and is not contractual. If further information is required, please contact the Saint-Gobain SEFPRO Marketing Department.