

Physical Properties

| | | |
|-----------------------------|------------------------|-------------------|
| Bulk density: | 3,4 - 3,65 | g/cm ³ |
| Porosity: | 0 | % |
| Hardness to Mohs: | ~ 9 | |
| Compressive strength: | >3000 | MPa |
| Flexural strength: | 240 - >300 | MPa |
| Coefficient of expansion: | 6 - 8x10 ⁻⁶ | 1/K |
| Thermal conductivity: | 20 - 22 | W/mK |
| Max. operating temperature: | 1.550 | °C |

Chemical Composition

| Components | Mean Values (Weight-%) |
|--------------------------------|------------------------|
| Al ₂ O ₃ | >92,00 |
| SiO ₂ | 2,50 |
| CaO | 2,30 |
| MgO | 2,80 |
| Fe ₂ O ₃ | 0,06 |
| Na ₂ O | 0,03 |
| K ₂ O | 0,01 |

Chemical Resistance

Strong resistance to acids, except for hydrofluoric acids; partially resistant to alkaline solutions (loss of the bonding sections).

All values were determined on test bodies and are mean values from standard test methods and therefore do not constitute guaranteed properties for construction items of all kinds, linings etc. in the sense of assured product values; in cases of doubt, pilot trials and/or item tests are recommendable.