



Technical Ceramics

- Advice
- Design
- Production
- Supply

Gimex technische keramiek
een divisie van **Ammertech BV**
Grasbeemd 21 | NL-5705 DE | HELMOND
T +31 (0)345 57 42 55 | F +31 (0)345 57 48 66
sales@gimex.nl | www.gimex.nl

Datasheet Sapphire

Properties	Unit	Value
Structure		Hexagonal
Lattice parameter		A=4.785Å c=12.991Å
Density	g/cm ³	3.98
Hardness	MOHS	9
Melting point	°C	2045
DN/DT	K	13*10 ⁻⁶
Transmission rate		T≈80% (0.3-5μm)
Refractive index		n _o = 1.768 n _e = 1.760
Thermal conductivity	W/MK at 100°C	25
Thermal expansion	10 ⁻⁶ K	5.8
Specific heat capacity	J/gK	1.171
Dialectric constant		11.5(//c) 9.3 (⊥ c)