

**Zirkoniumdioxid
für VIS und IR-Bereich**

**Yttria-stabilized Zirconium Oxide
for VIS and IR-range**

Formula	ZrO ₂ :Y (9.5 mol% Y ₂ O ₃)
Growth method	Skull melting
Max. sizes, (mm)	∅50.8
Transmission range, (μm) (Thickness 15 mm)	0.43 - 5.0
Structure	cubic
Density (g/cm ³)	5.92
Melting point (°C)	2780
Hardness (Mohs)	8.7
Thermal expansion coefficient (10 ⁻⁶ /K)	9.2
Thermal conductivity (W m ⁻¹ K ⁻¹)	1.8
Specific heat capacity (J kg ⁻¹ K ⁻¹)	
Solubility in water (g/100 cm ³)	undeclared
Solubility in acids	undeclared
Solubility in organic solvents	undeclared
Wavelength (μm)	4.0
Refractive index	2.24
Absorption coefficient (cm ⁻¹)	

Transmission spectrum:

