

**Zinkselenid
für VIS und IR-Bereich**

**Zinc Selenide
for VIS and IR-range**

Formula	ZnSe					
Growth method	Chemical vapour deposition					
Max. sizes, (mm)	Ø100					
Transmission range, (µm) (Thickness 10 mm)	0.55 - 18.0					
Structure	cubic					
Density (g/cm ³)	5.26					
Melting point (°C)	1520					
Hardness (Mohs)	4					
Thermal expansion coefficient (10 ⁻⁶ /K)	6.4 -7.6					
Thermal conductivity (W m ⁻¹ K ⁻¹)	16.9					
Specific heat capacity (J kg ⁻¹ K ⁻¹)	355					
Solubility in water (g/100 cm ³)	insoluble					
Solubility in acids	soluble					
Solubility in organic solvents	insoluble					
Wavelength (µm)	1.0	3.0	5.0	10.0	12.0	15.0
Refractive index	2.4894	2.4376	2.4296	2.4067	2.3936	2.3662
Absorption coefficient (cm ⁻¹)	0.005 at 10.6 µm					

Transmission spectrum:

