

**Zinksulfid
für IR-Bereich**

**Zinc Sulfide
for IR-range**

Formula	ZnS					
Growth method	Chemical vapor deposition					
Max. sizes, (mm)	Ø150					
Transmission range, (µm) (Thickness 10 mm)	1.0 - 13.0					
Structure	cubic					
Density (g/cm ³)	4.09					
Melting point (°C)	1830					
Hardness (Mohs)	4.5					
Thermal expansion coefficient (10 ⁻⁶ /K)	6.6					
Thermal conductivity (W m ⁻¹ K ⁻¹)	16,8					
Specific heat capacity (J kg ⁻¹ K ⁻¹)	470					
Solubility in water (g/100 cm ³)	insoluble					
Solubility in acids	unessential					
Solubility in organic solvents	insoluble					
Wavelength (µm)	1.0	3.0	6.0	8.0	10.0	12.0
Refractive index	2.292	2.257	2.239	2.222	2.200	2.179
Absorption coefficient (cm ⁻¹)	0,2 at 10 µm					

Transmission spectrum:

