

**Kalziumfluorid
für UV, VIS und IR-Bereich**

**Calcium Fluoride
for UV, VIS and IR-range**

Formula	CaF ₂					
Growth method	Stockbarger technique					
Max. sizes, (mm)	Ø200					
Transmission range, (µm) (Thickness 10 mm)	0.15 - 9.0					
Structure	cubic					
Density (g/cm ³)	3.18					
Melting point (°C)	1418					
Hardness (Mohs)	4					
Thermal expansion coefficient (10 ⁻⁶ /K)	16.2-19.4					
Thermal conductivity (W m ⁻¹ K ⁻¹)	9.17					
Specific heat capacity (J kg ⁻¹ K ⁻¹)	888					
Solubility in water (g/100 cm ³)	0.0016					
Solubility in acids	unessential					
Solubility in organic solvents	insoluble in acetone					
Wavelength (µm)	0.2	0.5	1.0	5.0	10.0	12.0
Refractive index	1.4951	1.4365	1.4289	1.3990	1.3002	1.2299
Absorption coefficient (cm ⁻¹)	0.10 at 0.2 µm 0.01 at 0.4 µm 0.03 at 2.6 – 2.9 µm					

Transmission spectrum:

