

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

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

Formula	MgF ₂					
Growth method	Stockbarger technique					
Max. sizes, (mm)	Ø90					
Transmission range, (µm) (Thickness 10 mm)	0.13 - 7.0					
Structure	tetragonal					
Density (g/cm ³)	3.18					
Melting point (°C)	1255					
Hardness (Mohs)	6					
Thermal expansion coefficient (10 ⁻⁶ /K)	parallel c-axis: 10.86 - 14.54					
Thermal conductivity (W m ⁻¹ K ⁻¹)	undeclared					
Specific heat capacity (J kg ⁻¹ K ⁻¹)	920					
Solubility in water (g/100 cm ³)	0.0076					
Solubility in acids	soluble					
Solubility in organic solvents	insoluble in alcohol					
Wavelength (µm)	0.2	0.5	1.0	3.0	5.0	7.0
Refractive index n _o	1.4231	1.3797	1.3736	1.3618	1.3400	1.3044
n _e	1.4367	1.3916	1.3852	1.3724	1.3487	1.3101
Absorption coefficient (cm ⁻¹)	0.07 at 0.2 µm 0.02 at 5.0 µm					

Transmission spectrum:

