

Magnesiumoxid für VIS und IR-Bereich

Magnesium Oxide for VIS and IR-range

Formula	MgO			
Growth method	Flux melt			
Max. sizes	Ø50.8 mm			
Transmission range, μm (Thickness 1 mm)	0.3 - 7.0			
Structure	cubic			
Density (g/cm^3)	3.58			
Melting point ($^{\circ}\text{C}$)	2800			
Hardness (Mohs)	5.8			
Thermal expansion coefficient ($10^{-6}/\text{K}$)	8			
Thermal conductivity ($\text{W m}^{-1} \text{K}^{-1}$)	40.6			
Specific heat capacity ($\text{J kg}^{-1} \text{K}^{-1}$)	837			
Solubility in water ($\text{g}/100 \text{cm}^3$)	0.00062			
Solubility in acids				
Solubility in organic solvents				
Wavelength (μm)	0.5	1.0	3.0	5.0
Refractive index	1.74	1.72	1.68	1.63
Absorption coefficient (cm^{-1})				

Transmission spectrum:

Transmission, %

