

**Magnesiumoxid
für VIS und IR-Bereich**

**Magnesium Oxide
for VIS and IR-range**

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|--|--|-----------|------|------|------|
| Formula | | MgO | | | |
| Growth method | | Flux melt | | | |
| Max. sizes, (mm) | | Ø50.8 | | | |
| Transmission range, (µm) (Thickness 1 mm) | | 0.3 - 7.0 | | | |
| Structure | | cubic | | | |
| Density (g/cm ³) | | 3.58 | | | |
| Melting point (°C) | | 2800 | | | |
| Hardness (Mohs) | | 5.8 | | | |
| Thermal expansion coefficient (10 ⁻⁶ /K) | | 8 | | | |
| Thermal conductivity (W m ⁻¹ K ⁻¹) | | 40.6 | | | |
| Specific heat capacity (J kg ⁻¹ K ⁻¹) | | 837 | | | |
| Solubility in water (g/100 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:

