

GLOBAL OPTICS (UK) LTD

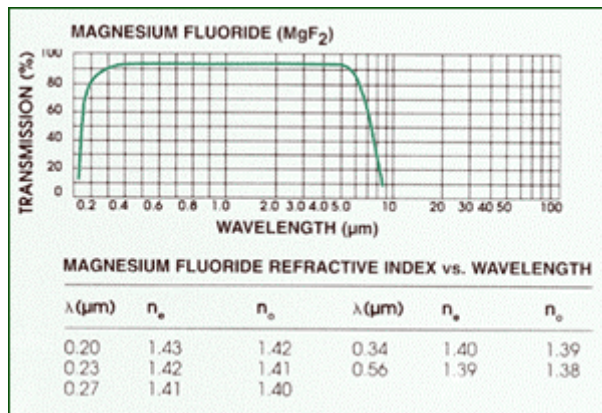
30 Brockley Road, Bournemouth
Dorset, BH10 6JN.
Tel: 01202 530609
Fax: 01202 547209
Email: globalopticsuk@btinternet.com
Website: www.globalopticsuk.co.uk

MAGNESIUM FLUORIDE - MgF₂

A very durable material resistant to mechanical and thermal shock and used for prisms, windows and lenses from the vacuum ultraviolet to the infrared region of 7.5 microns.

MgF₂ is a birefringent material making it effective as a polarising element in the ultraviolet region.

Transmission Range	0.11 - 7.5 μ
Crystal Structure	Tin oxide
Cleavage Plane	Parallel to A or C axis
Colour	Colourless
Density	3.1766 (18°)
Melting Point (°)	1255
Reflection Loss	4.8% (visible) for 2 surfaces
Solubility index	0.0076gm/100gm water / 18°C
Hardness (Knoop)	415kg/mm ²
Thermal Conductivity (cal/cm sec°C)	0.3W (m K) at (13°C)
Thermal Expansion coefficient (/°C)	18.8x10 ⁻⁶ (Parallel to C axis) 1.31x10 ⁻⁶ (Vertical to C axis)



Whilst every effort has been made to verify the data provided, no responsibility can be accepted for its accuracy