

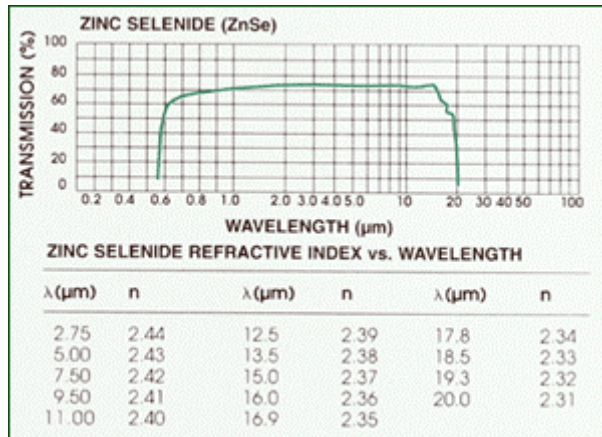
## GLOBAL OPTICS (UK) LTD

30 Brockley Road, Bournemouth  
Dorset, BH10 6JN.  
Tel: 01202 530609  
Fax: 01202 547209  
Email: [globalopticsuk@btinternet.com](mailto:globalopticsuk@btinternet.com)  
Website: [www.globalopticsuk.co.uk](http://www.globalopticsuk.co.uk)

### ZINC SELENIDE<sub>2</sub>

Used for Infrared windows, lenses, mirrors and prisms in the region 0.5 microns to 22 microns, major uses being laser optics and Forward Looking IR systems (FLIR).

Transmission Range	0.5 - 22.0 $\mu$
Crystal Structure	Polycrystalline Cubic
Cleavage Plane	None
Colour	Yellow
Density	5.27
Melting Point ( $^{\circ}$ )	1525
Reflection Loss	29% (10.6 $\mu$ ) for 2 surfaces
Solubility index	Insoluble
Hardness (Knoop)	120/50gm indenter
Thermal Conductivity (cal/cm sec $^{\circ}$ C)	18Wm <sup>-1</sup> °K <sup>-1</sup> (25 $^{\circ}$ C)
Thermal Expansion coefficient (/ $^{\circ}$ C)	7.57x10 <sup>-6</sup> /°K



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