

BD6™ Chalcogenide Glass

Custom sizes and specifications are available

Refractive Indices and Absorption Coefficient		
Wavelength λ (μm)	Refractive Index	Absorption Coefficient (cm^{-1})
2	2.8230	0.003
4	2.7978	0.002
6	2.7914	0.002
8	2.7867	0.002
10	2.7816	0.003
12	2.7755	0.004
14	2.7683	0.068

Internal Transmission Formula

$$T_i = e^{(-a \cdot d)}$$

Where a is the absorption coefficient,
and d is the sample thickness

Coatings

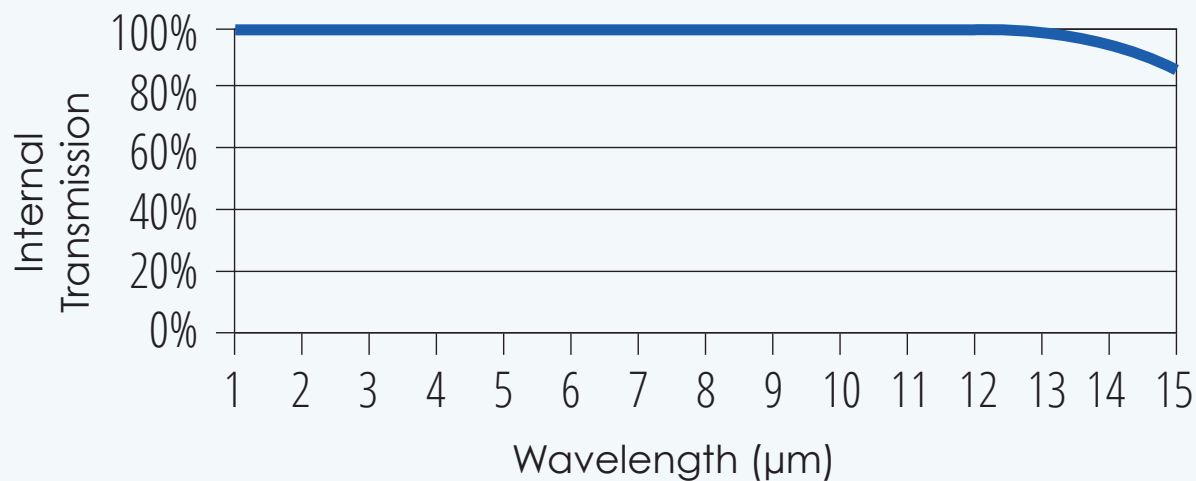
HEAR and DLC coatings available

Composition	
Component	Percentage
Arsenic	40%
Selenium	60%
Equivalent Glasses	
Schott - IRG26	
Vitron - IG6	

Mechanical Properties	
Density	4.63 g/cm ³
Hardness (Vickers)	142 HV
Young's Modulus	19.8 GPa

Thermal Properties	
Max Exposure Temp	100°C
CTE (25-100°C)	22.5 x 10 ⁻⁶ /°C
dn/dT	Pending

Internal Spectral Transmission¹



¹Per mm of thickness, ignoring surface reflections

ISP Optics Corp:

2603 Challenger Tech Court, Suite 100
Orlando, FL 32826
Tel: +800-909-4207
www.ispoptics.com

ISP Optics Latvia:

24a Ganību Dambis, korp 13
Rīga, LV-1005, Latvia
T: +371 67 323 779
sales@ispoptics.eu



A LightPath[®] COMPANY