

Zinc Selenide Laser Grade (ZnSe CVD)

Custom sizes and specifications are available

CRYSTALLOGRAPHIC

Syngony Cubic
Symmetry Class 43m

OPTICAL

Refractive Index at $n_{10.6}$ 2.4028
Thermal Coefficient of Refractive Index at 10.6 microns 6.1×10^{-5}
Transmission Range, microns 0.55-20

THERMAL

Thermal Linear Expansion, deg C⁻¹ at 27 deg C 7.57×10^{-6}
Thermal Conductivity, W/(m•deg C) at 20 deg C 16
Specific Heat Capacity, J/(kg•deg C) 0.339×10^3

MECHANICAL

Density, g/cm³ at 20 deg C 5.27
Mohs Hardness 4
Young Modulus (E), Pa 7.03×10^{10}
Poisson Ratio 0.28

CHEMICAL

Molecular Weight 144.33
Solubility
in water, gram/100 cm³ insoluble
in acids soluble

Refr. Index n vs. Wavelength λ

WAVELENGTH, MICRONS	REFRACTIVE INDEX
0.58	2.6754
1.0	2.4892
3.0	2.4376
5.0	2.4295
7.0	2.4218
9.0	2.4122
10.6	2.4028
11.0	2.4001
13.0	2.3850
15.0	2.3623
17.0	2.3448

Transmittance τ (λ) vs. Wavelength λ

