

Zinc Selenide 硒化锌

 <ul style="list-style-type: none"> 透光光谱宽: 0.5-14 μm 高功率 CO₂ 激光元件的首选材料 毛坯面积可达 500mm x 500mm 毛坯厚度可达 25mm 				Physical Properties 物理特性	Temp 温度 °C	ZnSe 硒化锌	Units 单位
				Density 密度	20	5.27	g/cc
				Hardness 硬度	20	105	kg/mm ²
				Flexural Strength 弯曲强度	20 260	7500 10500	psi
				Young's Modulus 杨氏模量	20 260	10.2 8.9	Mpsi
Optical Properties 光学特性	波长 (μm)	ZnSe 硒化锌	Units 单位	Poisson's Ration 泊松比	20	0.28	-
Max. Transmittance (in-line/uncoated) 最大透过率	1 10	69.2 70.9	%	Coefficient of Thermal Expansion 热膨胀系数	20-170	7.57	ppm/K
Absorption Coeff. 吸收系数	0.63 2.7 3.8 5.3 10.6	100 1.5 1.5 0.4 0.5	$\times 10^{-3}$ cm ⁻¹	Specific Heat 比热	20	0.339	J/g-K
Index In-homogeneity 折射率不均匀性	10.6	3	ppm	Thermal Conductivity 导热率	20 260	0.16 0.08	W/cm-K
Thermal-optic Coeff. (dn/dT) 折射率的温度变化率	0.63 1.15 3.39 10.6	10.6 7.0 6.2 6.1	$\times 10^{-5}$ K ⁻¹	Grain Size 颗粒大小	-	70	microns
				Dielectric Constant 介电常数	20	8.976	-
				Loss Tangent	20	0.0017	-

常见 ZnSe 的规格

- 圆形毛坯直径系列(mm):

5.70	8.05	12.0	13.2	15.1	17.3	17.8	17.9	19.2	21.0	24.5	27.2	29.8	30.2
32.2	34.9	37.1	37.3	38.1	39.8	42.7	43.2	43.6	44.8	45.7	48.6	49.8	50.6
52.8	54.1	55.9	61.0	62.0	66.9	67.3	68.7	72.4	76.44	78.7	95.3	102.1	

- 厚度系列通常在 8mm 到 13mm 之间. 厚度大于 15mm 要订制, 有最低订购数量要求.
- 方形和长方形可按客户要求制作.

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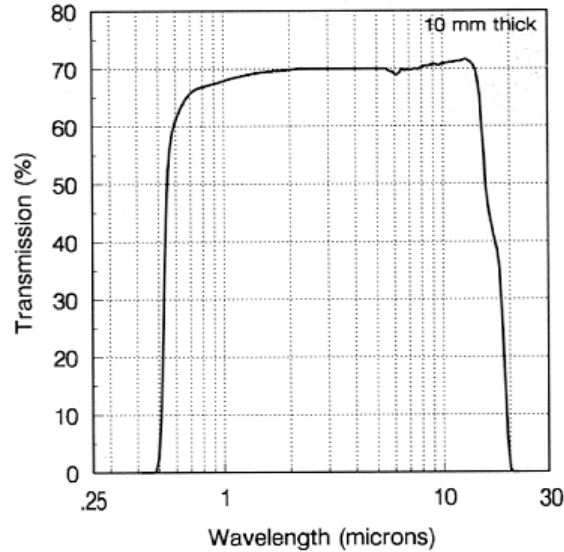
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Zinc Selenide
硒化锌

ZnSe 的光谱透过率

ZnSe Transmission Spectrum



ZnSe 的折射率

Wavelength (μm) 波长	Refractive Index 折射率	Theoretical Trans. 透过率	Wavelength (μm) 波长	Refractive Index 折射率	Theoretical Trans. 透过率	Wavelength (μm) 波长	Refractive Index 折射率	Theoretical Trans. 透过率
0.45	2.9144		3.00	2.4376	70.2%	9.27	2.4108	70.8%
0.50	2.7428		3.39	2.4356	70.3%	9.50	2.4095	70.8%
0.55	2.6628	65.8%	3.50	2.4351	70.3%	10.0	2.4065	70.9%
0.60	2.6141	66.7%	3.80	2.4339	70.3%	10.5	2.4034	70.9%
0.6328	2.5911	67.2%	4.00	2.4331	70.3%	10.6	2.4028	70.9%
0.65	2.5809	67.4%	4.50	2.4313	70.4%	11.0	2.4001	71.0%
0.70	2.5568	67.8%	5.00	2.4295	70.4%	11.5	2.3967	71.1%
0.75	2.5385	68.2%	5.30	2.4284	70.4%	12.0	2.3930	71.2%
0.80	2.5241	68.5%	5.50	2.4277	70.4%	12.5	2.3891	71.2%
0.90	2.5034	68.9%	6.00	2.4258	70.5%	13.0	2.3850	71.3%
1.00	2.4892	69.2%	6.50	2.4239	70.5%	13.5	2.3808	71.4%
1.06	2.4827	69.3%	7.00	2.4218	70.6%	14.0	2.3762	71.5%
1.50	2.4572	69.8%	7.50	2.4196	70.6%	14.5	2.3715	
2.00	2.4462	70.1%	8.00	2.4173	70.6%	15.0	2.3665	
2.50	2.4409	70.2%	8.50	2.4148	70.7%	16.0	2.3557	
2.70	2.4394	70.2%	9.00	2.4122	70.8%	17.0	2.3438	