

## ZNSE硒化锌窗片(CO<sub>2</sub>激光器)



### 产品描述:

硒化锌 (ZnSe) 是最常用的材料,因为它对红外 CO<sub>2</sub> 激光束的透过率极高(吸收系数小),并且可以传播可见的导光。使用非球面镜头、平凸镜头或弯月镜头。焦距越长,光斑直径和焦距越大。请根据工件选择镜头。当使用高压气体来辅助切削加工时,请根据气压选择镜头的厚度。

### 产品特点:

- ✿ 高数值孔径,最佳收集效率
- ✿ 紧凑的单透镜设计
- ✿ 衍射限制设计
- ✿ RoHS 认证

### 应用领域:

- ✿ 深红外光谱分析
- ✿ 紫外激光传输
- ✿ CO<sub>2</sub>激光器
- ✿ 红外光学
- ✿ 外延基片

**技术参数:**

透射波段范围:	0.6 to 21.0 um
折射率:	2.4028 at 10.6 um
反射损耗:	29.1% at 10.6 um (2 surfaces)
吸收系数:	0.0005 cm <sup>-1</sup> at 10.6 um
吸收峰:	45.7 um
dn/dT:	+61 x 10 <sup>-6</sup> /°C at 10.6 um at 298K
dn/du = 0:	5.5 um
密度:	5.27 g/cc
熔点:	1525 °C (see notes below)
导热系数:	18 W m <sup>-1</sup> K <sup>-1</sup> at 298K
热膨胀:	7.1 x 10 <sup>-6</sup> /°C at 273K
硬度:	Knoop 120 with 50g indenter
比热容量:	339 J Kg <sup>-1</sup> K <sup>-1</sup>
Dielectric Constant:	n/a
Youngs Modulus (E):	67.2 GPa
Shear Modulus (G):	n/a
Bulk Modulus (K):	40 GPa
弹性系数:	Not Available
Apparent Elastic Limit:	55.1 MPa (8000 psi)
泊松比:	0.28
Solubility:	0.001g/100g water
Molecular Weight:	144.33
Class/Structure:	HIP polycrystalline cubic, ZnS, F43m

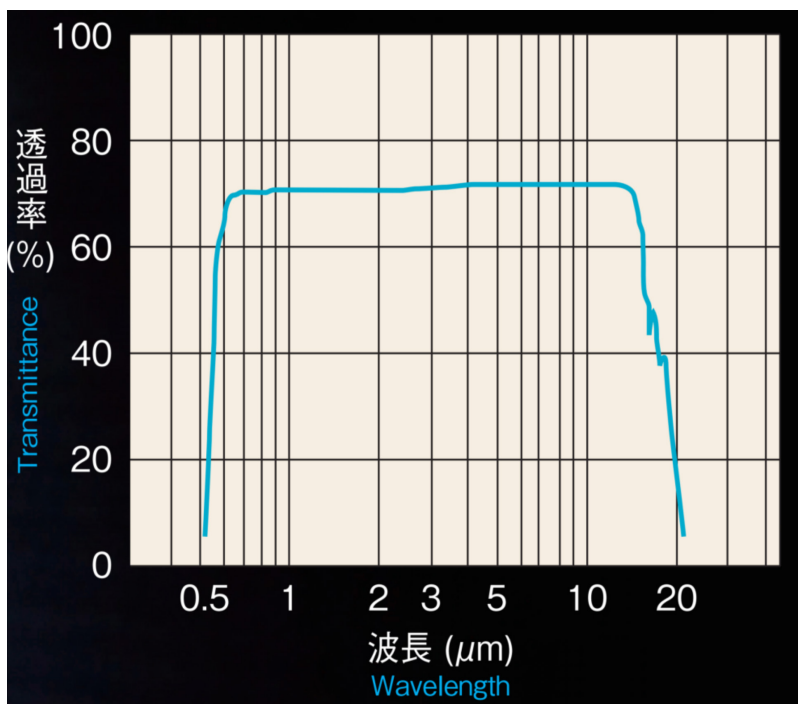


**折射率:(No = Ordinary Ray)**

$\mu\text{m}$	No	$\mu\text{m}$	No	$\mu\text{m}$	No
0.54	2.6754	0.58	2.6312	0.62	2.5994
0.66	2.5755	0.7	2.5568	0.74	2.5418
0.78	2.5295	0.82	2.5193	0.86	2.5107
0.90	2.5034	0.94	2.4971	0.98	2.4916
1.0	2.4892	1.4	2.4609	1.8	2.4496
2.2	2.4437	2.6	2.4401	3.0	2.4376
3.4	2.4356	3.8	2.4339	4.2	2.4324
4.6	2.4309	5.0	2.4295	5.4	2.4281
5.8	2.4266	6.2	2.4251	6.6	2.4235
7.0	2.4218	7.4	2.4201	7.8	2.4183
8.2	2.4163	8.6	2.4143	9.0	2.4122
9.4	2.4100	9.8	2.4077	10.2	2.4053
10.6	2.4028	11.0	2.4001	11.4	2.3974
11.8	2.3945	12.2	2.3915	12.6	2.3883
13.0	2.3850	13.4	2.3816	13.8	2.3781
14.2	2.3744	14.6	2.3705	15.0	2.3665
15.4	2.3623	15.8	2.3579	16.2	2.3534
16.6	2.3487	17.0	2.3438	17.4	2.3387
17.8	2.3333	18.2	2.3278		



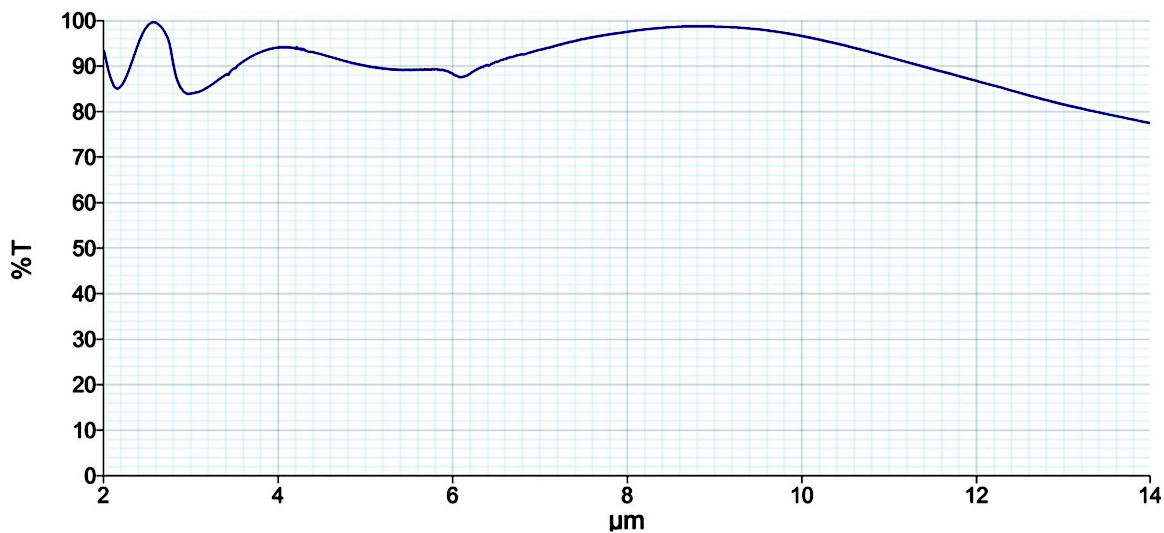
### 透射曲线图:



### 测试设备描述:

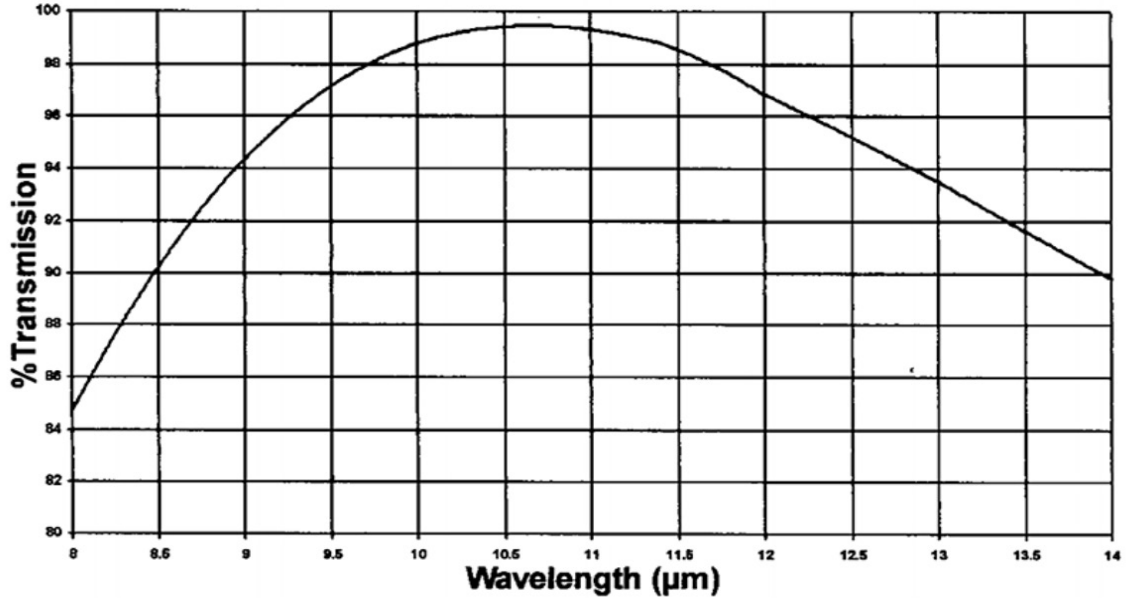
Instrument Model	Frontier FT-IR
Instrument Serial Number	97187
Software Revision	CPU32 Main 00.09.9951 07-September-2011 11:49:41
Number of Scans	1
Resolution	4

### 镀膜光谱:

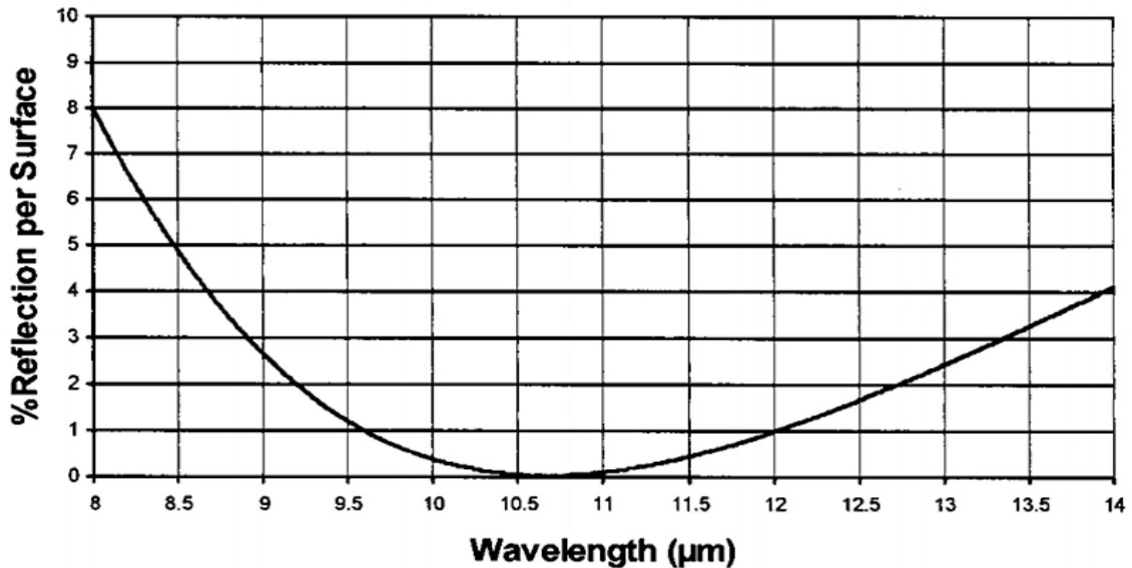


针对CO2激光器 10.6um镀膜 (定制可以咨询):

High-Efficiency Anti-Reflective Coating on ZnSe for 10.6um  
Transmission vs. Wavelength



High-Efficiency Anti-Reflective Coating on ZnSe for 10.6um  
Reflection vs. Wavelength





## 订购型号:

型号: MP- ZNSE-25-4-AR Zinc Selenide (硒化锌) 窗片 (镀增透膜)

单价: 3800元/片

库存数量: 6片

描述:

IR级抛光硒化锌窗片AR/AR 镀膜 (3-12um)

尺寸: 25mm dia x 4mm

型号: MP- ZNSE-50-3 Zinc Selenide (硒化锌) 窗片 (无镀膜)

单价: 2800元/片

库存数量: 6片

描述:

IR级抛光硒化锌窗片

尺寸: 50mm x 3mm

型号: MP- ZNSE-70-3 Zinc Selenide (硒化锌) 窗片 (无镀膜)

单价: 6800元/片

库存数量: 6片

描述:

IR级抛光硒化锌窗片

尺寸: 70mm x 3mm