ZnSe Meniscus Lenses

SPECIFICATIONS

Material	ZnSe
Surface quality	40–20 scratch & dig
Focal length tolerance	±2%
Diameter tolerance	+0.0 -0.13 mm
Thickness tolerance	±0.1 mm
Clear Aperture	90% of the diameter
Coating	both surfaces AR coated @ 10.6 µm, R≤0.5% per surface

Catalogue number	Diameter, mm	Focal length, mm	Price, EUR
565-6122	12.7	38.1	215
565-6251	25.4	25.4	224
565-6252	25.4	38.1	224
565-6253	25.4	50	217
565-6255	25.4	63.5	217
565-6256	25.4	75	217
565-6257	25.4	100	217
565-6258	25.4	127.0	217
565-6382	38.1	63.5	345
565-6385	38.1	127.0	345
565-6388	38.1	254.0	345
565-6502	50.8	127.0	612
565-6765	76.2	254.0	1450

Please contact us for other size, shape, precision or coatings requirements.

HOUSING ACCESSORIES

- Variable Lens Holder 830-0040

See page 5.47

COPPER (Cu) MIRRORS

- **Very high thermal conductivity**

Optical components – Cu metal mirrors are intended for the following typical applications:

• optical resonators of pulsed and CW high power IR lasers;

• optical systems for transforming, transmitting and focusing of laser beams.

The working surface of Cu mirrors is treated by diamond turning or polishing.

Treated surfaces are coated with corrosion-resistant, reflective and protective-reflecting coatings.

SPECIFICATIONS

Material of the working surface	high purity oxygen free Cu
Density, g/cm³	7.4
Operation wavelength	10.6 µm
Shape of the working surface	plane, sphere
Dimensions of the working surface	up to 100 mm
Surface quality	40–20 scratch & dig
Surface irregularity	λ/2 @ 633 nm
Clear aperture	>85% of diameter
Diameter tolerance	+0.0 -0.12 mm
Thickness tolerance	±0.2 mm
Radius tolerance	±2%
Coating	protected gold
Reflectivity for unpolarised radiation	> 99%
Max permissible beam intensity	
- for CW laser	1–2 kW/cm²
- for pulsed laser	5 J/cm² 100 ns pulse @ 10.6 µm

Catalogue number	Diameter, mm	Thickness, mm	Concave ROC, m	Price, EUR
576-6250	25.4	8.0	flat	199
576-6252	25.4	8.0	2.0	215
576-6254	25.4	8.0	4.0	215
576-6256	25.4	8.0	6.0	215
576-6260	25.4	8.0	10.0	215

Please contact us for other size, radius of curvature, precision requirements or coating types.

HOUSING ACCESSORIES

- Mirror / Optics Mount 840-0060 with Mirror Adapter 840-0100-A3

See page 5.59 and 5.62