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TECHSPEC® 12.7mm Dia. x 6.35mm FL, 8-12µm AR Coated, ZnSe Aspheric Lens

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TECHSPEC Zinc Selenide (ZnSe) Aspheric Lenses

Stock **#39-504** **9 In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ ₹70,844

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Volume Pricing	
Qty 1-10	₹70,844 each
Qty 11-25	₹63,759 each
Qty 26-49	₹60,256 each
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General

Aspheric Lens **Type:**

Physical & Mechanical Properties

12.70 +0.00/-0.10 **Diameter (mm):**

≤20	Centering (arcmin):
≤50.8	Centering, ETD (μm):
11.43	Clear Aperture CA (mm):
1.89	Edge Thickness ET (mm):
4.00 ±0.10	Center Thickness CT (mm):
Protective as needed	Bevel:
Plano	Shape of Back Surface:
<50 RMS	Surface Roughness (□):

Optical Properties

6.35	Effective Focal Length EFL (mm):
1.00	Numerical Aperture NA:
4.69	Back Focal Length BFL (mm):
Coherent® Infrared ZnSe	Substrate: □
λ/2	Asphere Figure Error, RMS @ 632.8nm:
BBAR (8000-12000nm)	Coating:
R _{avg} <0.5% @ 8 - 12μm	Coating Specification:
40-20	Surface Quality:
0.5	f#:
8000 - 12000	Wavelength Range (nm):
Infinite	Conjugate Distance:
λ/10	Power (P-V) @ 632.8nm:

Electrical

λ/10	Power (P-V) @ 10.6μm:
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Regulatory Compliance

Compliant	RoHS 2015:
Compliant	Reach 224:
View	Certificate of Conformance:
Singapore	Country of Origin:
Edmund Optics India Private Limited	Imported By:

Custom

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

Product Details

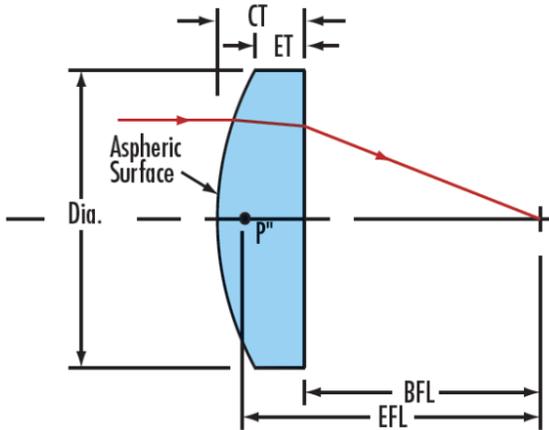
- Edmund Optics Designed, Coherent® Manufactured
- Premier Grade ZnSe Material
- Uncoated or Broadband 8-12 μ m AR Coating Available

TECHSPEC® Zinc Selenide (ZnSe) Aspheric Lenses are designed to provide diffraction-limited focusing performance for 10.6 μ m CO₂ lasers. Manufactured from Coherent® Infrared ZnSe material featuring 0.0005 cm^{-1} bulk absorption at 10.6 μ m, these lenses are available uncoated or with a broadband anti-reflection coating providing superior transmission from 8 - 12 μ m. The precision designs are ideal for integration into laser systems, thermal imaging assemblies, and FTIR devices. TECHSPEC Zinc Selenide Aspheric Lenses feature an irregularity of $N20$ at 10.6 μ m, 40-20 surface quality, and 50\AA surface roughness.

Notes: II-VI Incorporated is now Coherent Corp.

Special care should be taken when handling Zinc Selenide as it is a toxic material. Always wear rubber or plastic gloves to avoid risk of contamination.

Technical Information



Special Handling

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality. Explore our [Optics Cleaning Resources](#) for step-by-step guides and best practices. For personalized assistance, [Email us](#) or [Chat](#) with our technical support team.



Component Handling Tools

Compatible Mounts