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TECHSPEC® 25mm Dia. x 50mm FL, Uncoated, 4µm DWL, CaF₂ Aspheric Lens



TECHSPEC® Calcium Fluoride (CaF₂) Aspheric Lenses

Stock #13-467 **1 In Stock**

- 1 + C\$805.⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-5	C\$805.00 each
Qty 6-25	C\$721.00 each
Qty 26-49	C\$639.80 each
Need More?	Request Quote

Product Downloads

General

Aspheric Lens **Type:**

Physical & Mechanical Properties

25.00 +0.00/-0.10 **Diameter (mm):**

<1 **Centering (arcmin):**

22.50	Clear Aperture CA (mm):
4.66	Edge Thickness ET (mm):
8.50 ±0.10	Center Thickness CT (mm):
Diamond Turned	Edges:
Optical Properties	
50.00 @4000nm	Effective Focal Length EFL (mm):
0.25	Numerical Aperture NA:
46.26	Back Focal Length BFL (mm):
Calcium Fluoride (CaF ₂) Vacuum UV Grade	Substrate: <input type="checkbox"/>
4000	Aspheric Design Wavelength (nm):
λ/6	Asphere Figure Error, RMS @ 632.8nm:
Uncoated	Coating:
60-40	Surface Quality:
2.00	f/#:
94.99	Abbe Number (v _d):
4000	Design Wavelength DWL (nm):
200 - 7000	Wavelength Range (nm):

Regulatory Compliance	
View	Certificate of Conformance:

Need different specs or modifications?

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

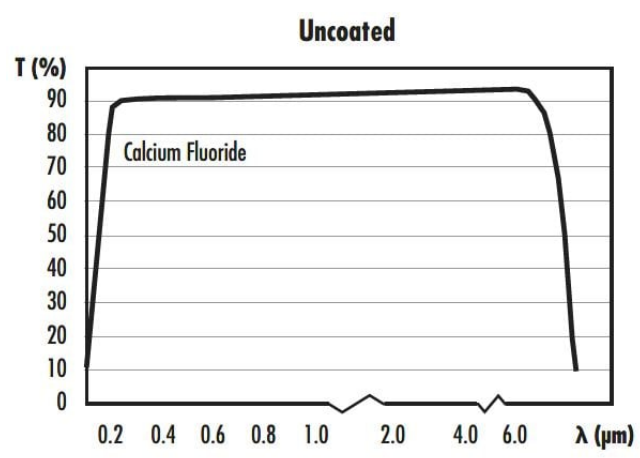
- 266nm or 4μm Design Wavelength Options
- High Transmission from 200nm to 7μm
- Diamond Turned for High Surface Accuracy
- Vacuum UV Grade CaF₂ Substrate

TECHSPEC® Calcium Fluoride (CaF₂) Aspheric Lenses have high transmission from the ultraviolet (UV) through the infrared (IR), covering the wavelength range of 200nm to 7μm. Calcium fluoride's low index of refraction enables these diamond turned aspheric lenses to be integrated with minimal Fresnel reflection loss without an anti-reflection coating. Calcium fluoride also offers low solubility and superior hardness compared to other fluoride-based substrates, allowing for these aspheric lenses to be used in harsh environments. TECHSPEC Calcium Fluoride (CaF₂) Aspheric Lenses are available in two designs; one for Nd:YAG, Excimer Laser, and other UV applications with a design wavelength of 266nm and the other for spectroscopic, mid-wave IR (MMR) thermal imaging, and other IR applications with a design wavelength of 4μm.

Please contact us for Calcium Fluoride Aspheric Lenses with custom designs or coating options.

Note: Calcium fluoride is a relatively soft optical material and requires careful handling as it is very easily scratched. Calcium fluoride is also susceptible to thermal shock.

Technical Information



Compatible Mounts
