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TECHSPEC®

50mm Dia x 50mm FL, Uncoated, High Precision Aspheric Lens



TECHSPEC® High Precision Aspheric Lenses

Stock **#12-448** **8 In Stock**

☐ [Other Coating Options](#)

-

1

+

£839²⁰

ADD TO CART

Volume Pricing	
Qty 1-5	£839.20 each
Qty 6-10	£755.20 each
Qty 11+	£704.80 each
Need More?	Request Quote

i Prices shown are exclusive of VAT/local taxes

Product Downloads

General	
Aspheric Lens	Type:
3D Surface Profile included with uncoated lenses	Note:
Physical & Mechanical Properties	

50.00 +0.00/-0.025	Diameter (mm):
<1	Centering (arcmin):
45.00	Clear Aperture CA (mm):
4.82	Edge Thickness ET (mm):
13.06	Center Thickness CT (mm):
Protective as needed	Bevel:
Plano	Shape of Back Surface:
Optical Properties	
50.00 @ 587.6nm	Effective Focal Length EFL (mm):
0.50	Numerical Aperture NA:
42.77	Back Focal Length BFL (mm):
N-SF6	Substrate: 
587.6	Aspheric Design Wavelength (nm):
λ/40	Asphere Figure Error, RMS @ 632.8nm:
Uncoated	Coating:
40-20	Surface Quality:
1	f##:
390 - 2500	Wavelength Range (nm):
Infinite	Conjugate Distance:
20.00	Power (diopters):
Regulatory Compliance	
View	Certificate of Conformance:

Product Details

- High Precision Aspheric Surface
- 3D Surface Profiles Included with Uncoated Lenses
- Uncoated and <0.25% Reflectance V-Coat Available

TECHSPEC® High Precision Aspheric Lenses guarantee better than λ/40 wave aspheric figure error. Achieved via precision magneto-rheological finishing (MRF), these aspheres offer high numerical apertures with diameters ranging from 15 to 50mm and are ideal for a variety of imaging and low light level applications. Each TECHSPEC High Precision Aspheric Lens is individually measured. 3D surface profiles are included with uncoated lenses. For diffraction-limited aspheres designed at specific Nd:YAG laser wavelengths, see our [TECHSPEC High Precision Laser Grade Aspheric Lenses](#).

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](#).

Compatible Mounts