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TECHSPEC[®] 50mm Dia 0.42 NA, UV-VIS Coated, UV Fused Silica Aspheric Lens



TECHSPEC UV Fused Silica Aspheric Lenses



Stock **#84-342** **3 In Stock**

☐ [Other Coating Options](#)

-

1

+

£759²⁰

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Volume Pricing	
Qty 1-5	£759.20 each
Qty 6-10	£684.00 each
Qty 11-25	£636.00 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Aspheric Lens

Type:

Physical & Mechanical Properties

50.00 +0.0/-0.1	Diameter (mm):
≤5	Centering (arcmin):
45	Clear Aperture CA (mm):
4.42	Edge Thickness ET (mm):
17.00 ±0.1	Center Thickness CT (mm):
Protective as needed	Bevel:

Plano	Shape of Back Surface:
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Optical Properties

60.00 @ 587.6nm	Effective Focal Length EFL (mm):
0.42	Numerical Aperture NA:
48.34	Back Focal Length BFL (mm):
Fused Silica (Corning 7980)	Substrate: ☐

587.6	Aspheric Design Wavelength (nm):
1.2λ	Asphere Figure Error, RMS @ 632.8nm:

UV-VIS (250-700nm)	Coating:
R _{avg} <2.5% @ 250 - 700nm	Coating Specification:

60-40	Surface Quality:
1.2	f/#:

250 - 700	Wavelength Range (nm):
Infinite	Conjugate Distance:
16.67	Power (diopters):

Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:

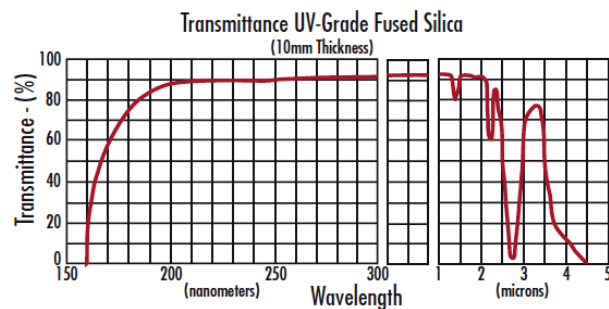
Compliant	Reach 235:
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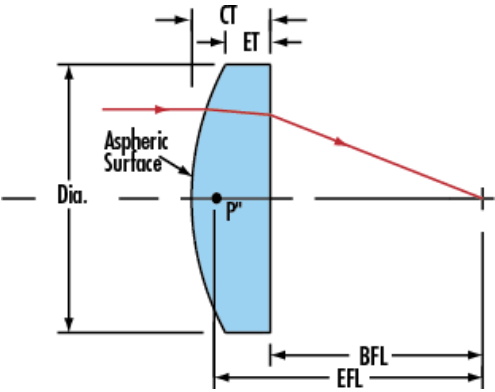
Product Details

- Low Coefficient of Thermal Expansion
- Precision and High Precision Options
- High Numerical Apertures to Maximize Throughput

TECHSPEC® UV Fused Silica Aspheric Lenses offer the benefits of an aspheric element combined with the manufacturing precision of state-of-the-art grinding and polishing equipment. These fused silica optics can be easily designed and integrated into complex optical systems with the available prescription data. Featuring low *f*/#'s, which allow for a larger aperture and thus more light gathering and focusing performance, these fused silica lenses are computer-optimized to eliminate spherical and minimize higher order aberrations. TECHSPEC® UV Fused Silica Aspheric Lenses offer a low coefficient of thermal expansion, making them ideal for applications in metrology, beam-focusing or collimating, and OEM integration. These lenses are available in a variety of coating options and are offered in sizes ranging from 10-50mm.

Technical Information





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