

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



TECHSPEC UV Fused Silica Aspheric Lenses



Stock **#67-273** **5 In Stock**

☐ [Other Coating Options](#)

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1

+

C\$1,328⁰⁰

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Volume Pricing	
Qty 1-5	C\$1,328.60 each
Qty 6-10	C\$1,197.00 each
Qty 11-25	C\$1,113.00 each
Need More?	Request Quote

Product Downloads

General

Type:
Aspheric Lens

Physical & Mechanical Properties

Diameter (mm):

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

Optical Properties

Effective Focal Length EFL (mm):	60.00 @ 587.6nm
Numerical Aperture NA:	0.42
Back Focal Length BFL (mm):	48.34
Substrate: ☐	Fused Silica (Corning 7980)
Aspheric Design Wavelength (nm):	587.6
Asphere Figure Error, RMS @ 632.8nm:	1.2λ
Coating:	UV (250-425nm)
Coating Specification:	R _{avg} ≤1.5% @ 250 - 425nm
Surface Quality:	60-40
f/#:	1.2
Wavelength Range (nm):	250 - 425
Conjugate Distance:	Infinite
Power (diopters):	16.67

Regulatory Compliance

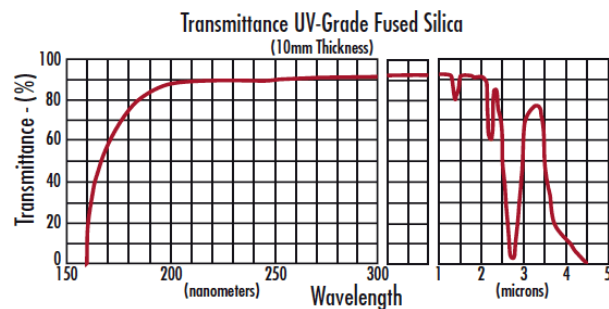
RoHS 2015:	Compliant
Certificate of Conformance:	View
Reach 235:	Compliant

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