

TECHSPEC® 50mm Dia 0.23 NA, UV-VIS Coated, UV Fused Silica Aspheric Lens



TECHSPEC UV Fused Silica Aspheric Lenses



Stock #21-945 [CONTACT US](#)

[Other Coating Options](#)

1 **A\$1,518⁴⁰**

ADD TO CART

| Volume Pricing | |
|----------------|-------------------------------|
| Qty 1-5 | A\$1,518.40 each |
| Qty 6-10 | A\$1,368.00 each |
| Qty 11-25 | A\$1,272.00 each |
| Need More? | Request Quote |

Product Downloads

SPECIFICATIONS

General

Aspheric Lens

Type:

Physical & Mechanical Properties

50.00 +0/-0.025 Diameter (mm):

<1 Centering (arcmin):

45 Clear Aperture CA (mm):

5.73 Edge Thickness ET (mm):

14.00 ±0.1 Center Thickness CT (mm):

Protective as needed Bevel:

Plano Shape of Back Surface:

Optical Properties

100.00 @ 355nm Effective Focal Length EFL (mm):

0.23 Numerical Aperture NA:

91.50 @ 355nm Back Focal Length BFL (mm):

Fused Silica (Corning 7980) Substrate:

355 Aspheric Design Wavelength (nm):

0.4λ Asphere Figure Error, RMS @ 632.8nm:

UV-VIS (250-700nm) Coating:

R_{avg} <2.5% @ 250 - 700nm Coating Specification:

40-20 Surface Quality:

2 f#:

250 - 700 Wavelength Range (nm):

Infinite Conjugate Distance:

10.00 Power (diopters):

Regulatory Compliance

Compliant RoHS 2015:

View Certificate of Conformance:

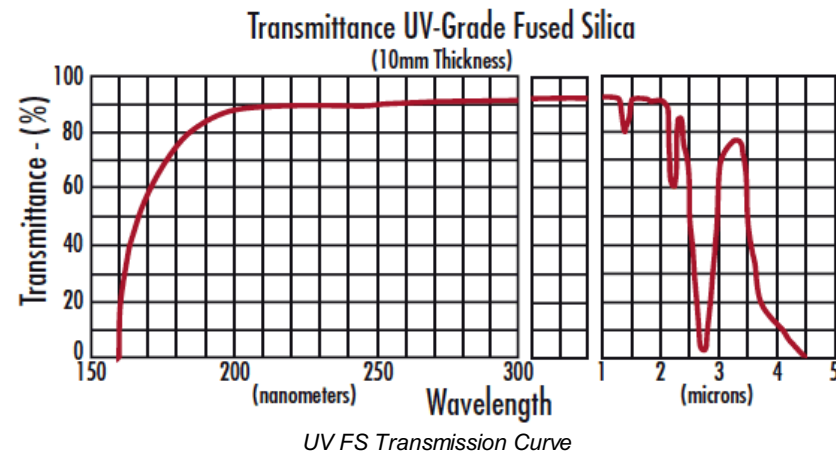
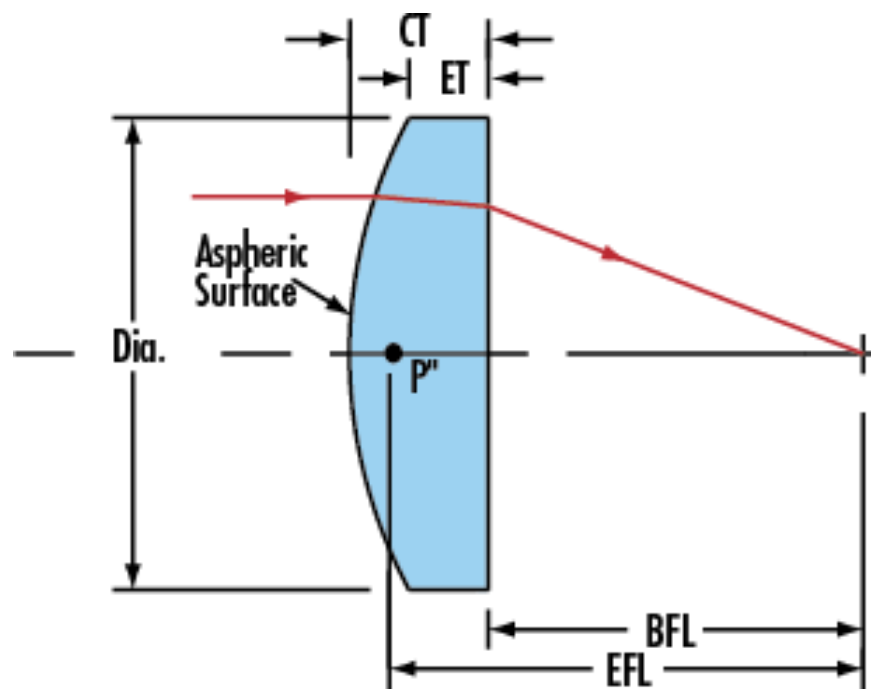
Compliant Reach 235:

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