

TECHSPEC® 50mm Dia 0.63 NA, UV-VIS Coated, UV Fused Silica Aspheric Lens



TECHSPEC UV Fused Silica Aspheric Lenses



Stock #84-340 **6 In Stock**

[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

General

Aspheric Lens **Type:**

Physical & Mechanical Properties

Diameter (mm):

50.00 +0.0/-0.1

Centering (arcmin):
≤5

Clear Aperture CA (mm):
45

Edge Thickness ET (mm):
4.07

Center Thickness CT (mm):
27.50 ±0.1

Bevel:
Protective as needed

Shape of Back Surface:
Plano

Optical Properties

Effective Focal Length EFL (mm):
40.00 @ 587.6nm

Numerical Aperture NA:
0.63

Back Focal Length BFL (mm):
21.15

Substrate:
[Fused Silica](#) (Corning 7980)

Aspheric Design Wavelength (nm):
587.6

Asphere Figure Error, RMS @ 632.8nm:
1.2λ

Coating:
UV-VIS (250-700nm)

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

Surface Quality:
60-40

f#:
0.8

Wavelength Range (nm):
250 - 700

Conjugate Distance:
Infinite

Power (diopters):
25.00

Regulatory Compliance

RoHS 2015:
[Compliant](#)

Certificate of Conformance:
[View](#)

Reach 235:
[Compliant](#)

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

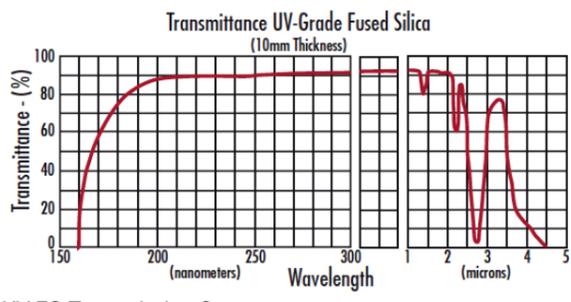
Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

Product Details

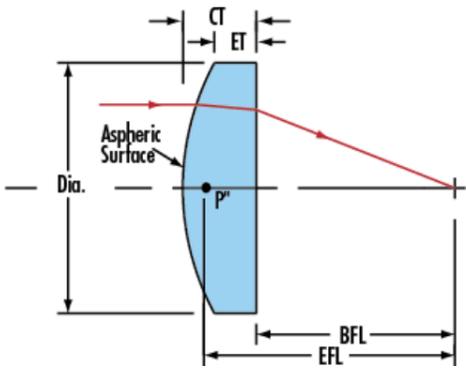
- Low Coefficient of Thermal Expansion
- Precision and High Precision Options
- High Numerical Apertures to Maximize Throughput

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



UV FS Transmission Curve



Compatible Mounts