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TECHSPEC<sup>®</sup> 50mm Dia 0.63 NA, VIS Coated, UV Fused Silica Aspheric Lens



TECHSPEC UV Fused Silica Aspheric Lenses



Stock **#67-276** **9 In Stock**

☐ [Other Coating Options](#)

-

1

+

S\$1,328<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | <b>S\$1,328.60</b> each       |
| Qty 6-10       | <b>S\$1,197.00</b> each       |
| Qty 11-25      | <b>S\$1,113.00</b> each       |
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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: □                         | <a href="#">Fused Silica</a> (Corning 7980) |
| Aspheric Design Wavelength (nm):     | 587.6                                       |
| Asphere Figure Error, RMS @ 632.8nm: | 1.2λ                                        |
| Coating:                             | VIS (425-675nm)                             |
| Coating Specification:               | R <sub>avg</sub> ≤1.5% @ 425 - 675nm        |
| Surface Quality:                     | 60-40                                       |
| f/#:                                 | 0.8                                         |
| Wavelength Range (nm):               | 425 - 675                                   |
| Conjugate Distance:                  | Infinite                                    |
| Power (diopters):                    | 25.00                                       |

Regulatory Compliance

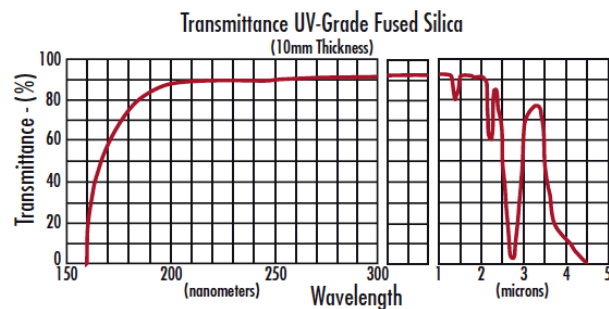
|                             |                           |
|-----------------------------|---------------------------|
| RoHS 2015:                  | <a href="#">Compliant</a> |
| Certificate of Conformance: | <a href="#">View</a>      |
| Reach 235:                  | <a href="#">Compliant</a> |

## Product Details

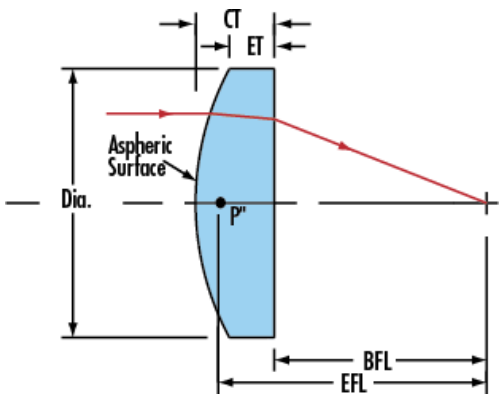
- Low Coefficient of Thermal Expansion
- Precision and High Precision Options
- High Numerical Apertures to Maximize Throughput

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



## 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