

TECHSPEC®

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

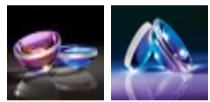


Stock #21-945 **5 In Stock** [Other Coating Options](#)

1 **C\$1,328^{.60}**

ADD TO CART

TECHSPEC UV Fused Silica Aspheric Lens



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	
STEP:step	Curve:pdf
PDF Drawing:pdf	IGES:igs
Zemax:zar	Zemax:zmx
eDrawing:eprt	Code V:seq
EO Spec Sheet	Download All

General

Type: Aspheric Lens

Physical & Mechanical Properties

Diameter (mm): 50.00 +0/-0.025	Centering (arcmin): <1
Clear Aperture CA (mm): 45	Edge Thickness ET (mm): 5.73
Center Thickness CT (mm): 14.00 ±0.1	Bevel: Protective as needed
Shape of Back Surface: Plano	

Optical Properties

Effective Focal Length EFL (mm): 100.00 @ 355nm	Numerical Aperture NA: 0.23
Back Focal Length BFL (mm): 91.50 @ 355nm	Substrate: Fused Silica (Corning 7980)
Aspheric Design Wavelength (nm): 355	Asphere Figure Error, RMS @ 632.8nm: 0.4λ
Coating: UV-VIS (250-700nm)	Coating Specification: R _{avg} <2.5% @ 250 - 700nm
Surface Quality: 40-20	f/#: 2
Design Wavelength DWL (nm): 355	Wavelength Range (nm): 250 - 700

Conjugate Distance: Infinite

Power (diopters): 10.00

Regulatory Compliance

RoHS 2015: **Compliant**

Certificate of Conformance: **View**

Reach 235: **Compliant**

Need different specs or modifications?

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

Related Products



C, S, and T-Mount Circular Optic Mounts



Optic Component Mounts

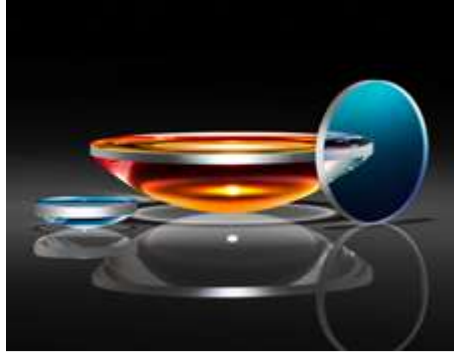


High Precision Aspheric Lenses



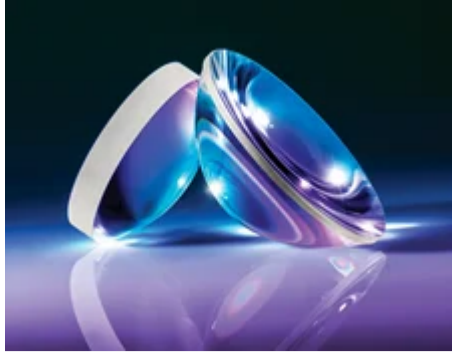
Glass Polished

Frequently Purchased Together



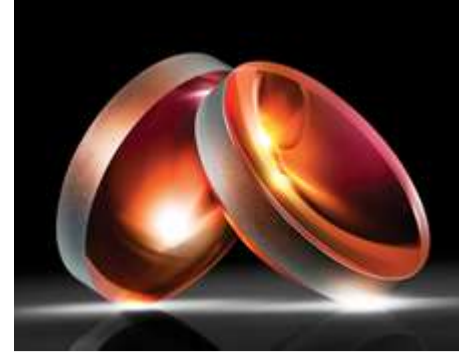
#48-830 - 25mm Dia. x 250mm
FL UV-VIS Coated, UV Plano-
Convex Lens
C\$232.40

Qty



#21-917 - 25mm Dia 0.23 NA,
UV-VIS Coated, UV Fused Silica
Aspheric Lens
C\$838.60

Qty



#22-893 - 25mm Dia x 50mm
FL, VIS EXT+, High Precision
Aspheric Lens
C\$1,118.60

Qty

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	50.0/50.8mm Optic Dia., SM2 Thin Mount	Fixed		#17-716	C\$50.75 Request Quote	20+ In Stock <input type="text" value="1"/>
	50.0mm Optic Dia., Optic Mount	Fixed		#64-567	C\$68.95 Request Quote	2 In Stock <input type="text" value="1"/>
	50.0mm Optic Dia., Optic Mount	Fixed		#64-568	C\$68.95 Request Quote	7 In Stock <input type="text" value="1"/>
	50mm Diameter, T-Mount Thin Optic Mount	Fixed		#88-943	C\$144.20 Request Quote	20+ In Stock <input type="text" value="1"/>
	50mm Diameter, T-Mount Thick Optic Mount	Fixed		#88-944	C\$151.20 Request Quote	20+ In Stock <input type="text" value="1"/>
	50.0/50.8mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-957	C\$431.20 Request Quote	1 In Stock <input type="text" value="1"/>
	50.0/50.8mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-960	C\$847.00 Request Quote	20+ In Stock <input type="text" value="1"/>
	50.0/50.8mm Optic Dia., 5 Axes Optical Mount	Adjustable - Linear (XYZ) & Tip-Tilt		#13-778	C\$1,176.00 Request Quote	10 In Stock <input type="text" value="1"/>

Check out our full selection of mounts [here](#).

Resources

Media Type

- Application Note
- Scientific Paper
- Trending in Optics
- Video

APPLICATION NOTE
**Anti-Reflection
(AR) Coatings**

APPLICATION NOTE
**An
Introduction to
Optical
Coatings**

APPLICATION NOTE
**Lens Geometry
Performance
Comparison**

Published Article

FAQ

Glossary

 CASE STUDIES

Laser Optics
for Eye
Surgery

 APPLICATION NOTE

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Lenses

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