TECHSPEC® 15mm Dia x 22.5mm FL, SWIR+, High Precision Aspheric Lens

TECHSPEC® High Precision Aspheric Lenses

Stock **#22-898** **7 In Stock**

Other Coating Options

- 1 + S$978.60

ADD TO CART

Volume Pricing	
Qty 1-5	**S$978.60** each
Qty 6-10	**S$880.60** each
Qty 11+	**S$821.80** each
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SPECIFICATIONS

General

Type:

Aspheric Lens

Note:
3D Surface Profile not included with coated lenses

Physical & Mechanical Properties

Diameter (mm):
15.00 +0.00/-0.025

Centering (arcmin):
<1

Clear Aperture CA (mm):
13.50

Edge Thickness ET (mm):
6.25

Center Thickness CT (mm):
8.79

Bevel:
Protective as needed

Shape of Back Surface:
Plano

Optical Properties

Effective Focal Length EFL (mm):
22.50 @ 587.6nm

Numerical Aperture NA:
0.33

Back Focal Length BFL (mm):
16.71

Substrate:
N-BK7

Aspheric Design Wavelength (nm):
587.6

Asphere Figure Error, RMS @ 632.8nm:
λ/40

Coating:
SWIR+ (900-1700nm)

Coating Specification:
R_{avg} <0.5% @ 900 - 1700nm @ ±30° AOI
R_{abs} <1.5% @ 900 - 1700nm @ ±30° AOI

Surface Quality:
40-20

f/#:
1.5

Wavelength Range (nm):
900 - 1700

Conjugate Distance:
Infinite

Power (diopters):
44.44

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 250:
Compliant

PRODUCT DETAILS

- High Precision Aspheric Surface
- 3D Surface Profiles Included with Uncoated Lenses
- Uncoated and <0.25% Reflectance V-Coat Available

TECHSPEC® High Precision Aspheric Lenses guarantee better than λ/40 wave aspheric figure error. Achieved via precision magneto-rheological finishing (MRF), these aspheres offer high numerical apertures with diameters ranging from 15 to 50mm and are ideal for a variety of imaging and low light level applications. Each TECHSPEC High Precision Aspheric Lens is individually measured. 3D surface profiles are included with uncoated lenses. For diffraction-limited aspheres designed at specific Nd:YAG laser wavelengths, see our **TECHSPEC High Precision Laser Grade Aspheric Lenses**.

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.**