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**TECHSPEC®**

## 25.4mm Dia x 50.8mm FL, 355nm V-Coat, High Precision Laser Grade Aspheric Lens



High Precision Laser Grade Aspheric Lenses

Stock **#39-556** **2 In Stock**

[Other Coating Options](#)

€830.<sup>00</sup>

**ADD TO CART**

### Volume Pricing

Qty 1-5	€830,00 each
Qty 6-10	€745,00 each
Need More?	<a href="#">Request Quote</a>

**!** Prices shown are exclusive of VAT/local taxes

### Product Downloads

### General

Aspheric Lens **Type:**

Strehl Ratio is >0.8 by design **Note:**

### Physical & Mechanical Properties

25.40 +0.00/-0.05	<b>Diameter (mm):</b>
<1	<b>Centering (arcmin):</b>
21.40	<b>Clear Aperture CA (mm):</b>
4.54	<b>Edge Thickness ET (mm):</b>
7.98	<b>Center Thickness CT (mm):</b>
Protective as needed	<b>Bevel:</b>
Plano	<b>Shape of Back Surface:</b>

## Optical Properties

50.80 @ 355nm	<b>Effective Focal Length EFL (mm):</b>
0.25	<b>Numerical Aperture NA:</b>
45.39	<b>Back Focal Length BFL (mm):</b>
<a href="#">Fused Silica</a> (Corning 7980)	<b>Substrate:</b> <input type="checkbox"/>
355	<b>Aspheric Design Wavelength (nm):</b>
$\lambda/40$	<b>Asphere Figure Error, RMS @ 632.8nm:</b>
Laser V-Coat (355nm)	<b>Coating:</b>
$R_{\text{abs}} < 0.25\%$ @ 355nm	<b>Coating Specification:</b>
10-5	<b>Surface Quality:</b>
2	<b>f#:</b>
See Technical Information Tab	<b>Spot Size (<math>\mu\text{m}</math>):</b>
Infinite	<b>Conjugate Distance:</b>
7.5 J/cm <sup>2</sup> @ 355nm, 20ns, 20Hz	<b>Damage Threshold, By Design:</b> <input type="checkbox"/>
19.69	<b>Power (diopters):</b>

## Material Properties

>0.8, by design	<b>Strehl Ratio:</b>
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## Regulatory Compliance

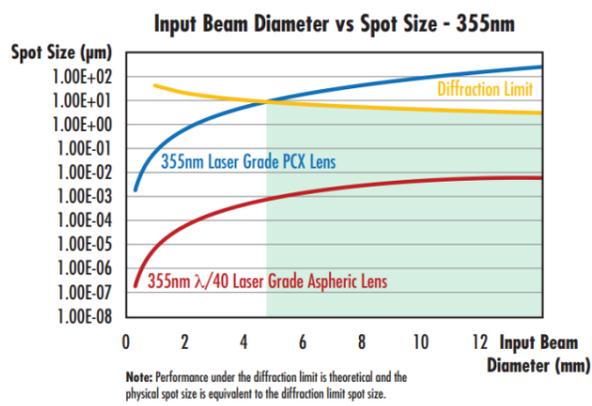
<a href="#">View</a>	<b>Certificate of Conformance:</b>
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## Product Details

- Substrate Shape and Coating Optimized for Nd:YAG Laser Wavelengths
- High Precision Aspheric Surface
- Strehl Ratio > 0.8

TECHSPEC® High Precision Laser Grade Aspheric Lenses are polished through precision magnetorheological finishing (MRF), providing them with an ultra-smooth aspheric surface with an aspheric surface tolerance of  $\lambda/40$  RMS. The aberration free aspheric surfaces produced through this super-polishing process result in these aspheric lenses having diffraction-limited performance at their design wavelengths. A high-performance Laser Line V-Coat minimizes reflection when these aspheric lenses are used at their Nd:YAG wavelengths. TECHSPEC High Precision Laser Grade Aspheric Lenses feature substrates designed and shaped at their laser wavelength to optimize the entire lens design, not just the anti-reflection coating, for the laser wavelength. Standard imperial sizes of these laser grade aspheres with  $f/2$  designs, made from fused silica, are available.

## 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

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