

TECHSPEC® 25mm Dia., 0.67 Numerical Aperture, Uncoated, Low Scatter Asphere



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Physical & Mechanical Properties

25.00 +0.0/-0.025 **Diameter (mm):**

<3 **Centering (arcmin):**

22.50 **Clear Aperture CA (mm):**

2.90 **Edge Thickness ET (mm):**

6.00 ±0.10 **Center Thickness CT (mm):**

0.75 x 45° **Bevel:**

Plano **Shape of Back Surface:**

P4 (<3 defects, ~10Å roughness) **Surface Roughness (□):**

Optical Properties

50.00 @ 587.6nm **Effective Focal Length EFL (mm):**

0.25 **Numerical Aperture NA:**

46.04 @ 587.6nm **Back Focal Length BFL (mm):**

N-BK7 **Substrate: □**

Uncoated **Coating:**

10-5 **Surface Quality:**

2.00 **f#:**

390 - 2500 **Wavelength Range (nm):**

Infinite **Conjugate Distance:**

0.35µm/mm per 1mm Window **Slope Error Aspheric Side:**

M4 RMS and 1.25λ PV **Asphere Figure Error, @ 632.8nm:**

20.00 **Power (diopters):**

Regulatory Compliance

View **Certificate of Conformance:**

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

- P4 Surface Roughness for Low Scatter
- 10-5 Laser Grade Surface Quality
- Precision RMS Aspheric Figure Error

TECHSPEC® Low Scatter Aspheric Lenses are high quality CNC polished aspheres featuring ISO 10110-8 P4 surface roughness and 10-5 surface quality. P4 surface roughness is specified as less than 3 microdefects per 10mm of sampling length and is the smoothest surface outlined in ISO 10110-8 standard. A low surface roughness and 10-5 surface quality leads to very low scattering when focusing or collimating laser light. High laser damage threshold coatings are available upon request. TECHSPEC® Low Scatter Aspheric Lenses are ideal for high power laser applications where low scattering is paramount, such as in the metrology and aerospace industries.