

[See all 215 Products in Family](#)

TECHSPEC®

12.5mm Dia., 0.50 Numerical Aperture, Uncoated, Inked, High Precision Aspheric Lens



TECHSPEC® Precision Aspheric Lenses

Stock **#37-417-INK** [CONTACT US](#)

[Other Coating Options](#)

- 1 + MRP ₹29,630

i Price inclusive of all taxes

ADD TO CART

Volume Pricing	
Qty 1-5	₹29,630 each
Qty 6-10	₹26,656 each
Qty 11-25	₹24,320 each
Need More?	Request Quote

Product Downloads

General

Aspheric Lens **Type:**

Physical & Mechanical Properties

12.50 ±0.025 **Diameter (mm):**

Centering (arcmin):	<3
Clear Aperture CA (mm):	11.25
Edge Thickness ET (mm):	5.50
Center Thickness CT (mm):	7.50 ±0.10
Bevel:	Protective as needed
Shape of Back Surface:	Plano

Optical Properties

Effective Focal Length EFL (mm):	12.50 @ 587.6nm
Numerical Aperture NA:	0.50
Back Focal Length BFL (mm):	8.34
Substrate:	N-SF6
Asphere Figure Error, RMS @ 632.8nm:	0.4λ
Coating:	Uncoated
Surface Quality:	40-20
f#:	1.00
Abbe Number (v _d):	25.36
Index of Refraction (n _d):	1.805
Wavelength Range (nm):	390 - 2500
Conjugate Distance:	Infinite

Material Properties

Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):	9.0
--	-----

Regulatory Compliance

Certificate of Conformance:	View
Country of Origin:	Singapore
Imported By:	Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91- 80-6845 0000

Product Details

- Improved Versions of Our Aspheric Lenses
- Precision Grade Aspheric Surfaces
- High Numerical Apertures to Maximize Throughput

TECHSPEC® Precision Aspheric Lenses are CNC polished aspheric lenses that feature a 0.4λ RMS aspheric figure error. The precision aspheric figure error makes these lenses ideal for applications that require spherical aberration correction, including imaging and laser focusing applications. These aspheric lenses can also be used to replace multiple spherical elements in optical assemblies to reduce weight and cost. TECHSPEC Precision Aspheric Lenses are available with diameters from 6 to 50mm and high numerical apertures to maximize light throughput.

Compatible Mounts