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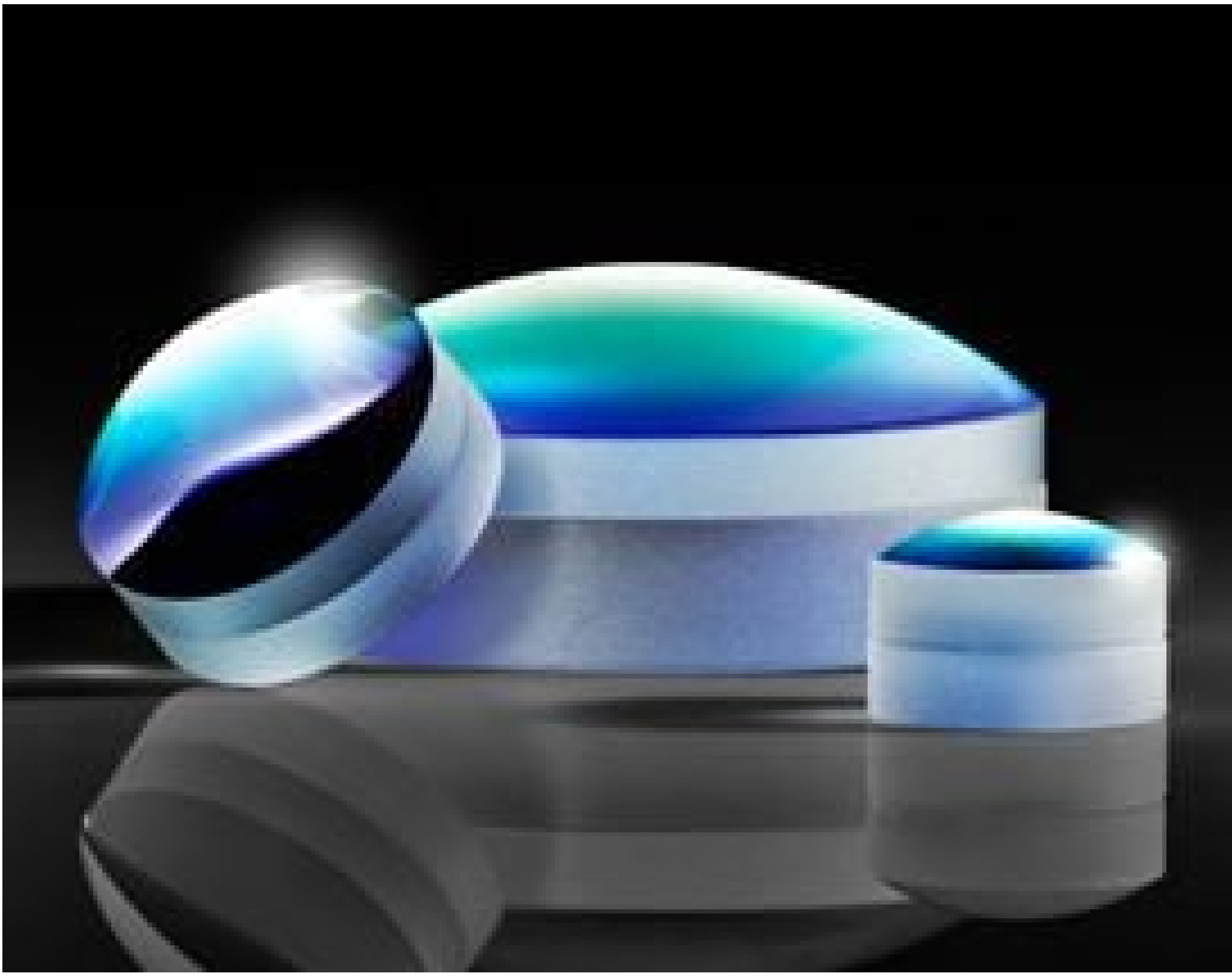
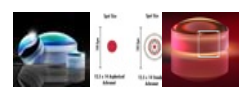
TECHSPEC® 9mm Diameter x 12mm EFL Aspherized Achromatic Lens



Aspherized Achromatic Lenses



Stock **#49-656** **20+ In Stock**

- 1 + **MRP ₹11,401**

Price inclusive of all taxes

ADD TO CART

Volume Pricing	
Qty 1-5	**₹11,401** each
Qty 6-25	**₹9,131** each
Qty 26-49	**₹8,424** each
Need More?	Request Quote

Product Downloads

General

Note:
VIS 0° Coating on First Surface, Second Surface is Aspheric Polymer

Type:
Achromatic Lens

Physical & Mechanical Properties

Diameter (mm):
9.00 +0.00/-0.05

Clear Aperture CA (mm):
7.00

Centering (arcmin):
≤5

Center Thickness CT (mm):
6.06

Center Thickness CT 1 (mm):
4.50

Center Thickness CT 2 (mm):
1.56

Edge Thickness ET (mm):
4.66

Optical Properties

Effective Focal Length EFL (mm):
12.00

Back Focal Length BFL (mm):
8.162

Focal Length Specification Wavelength (nm):
587.6

Radius R_1 (mm):
7.56

Radius R_2 (mm):
12.80

Radius R_3 (mm):
666.03

Substrate:
N-LAK8 / N-SF57

Surface Quality:
60-40, glass surface
80-50, polymer surface

f/#:
1.33

Numerical Aperture NA:
0.38

Coating:
VIS 0° (425-675nm)

Coating Specification:
R_{avg} ≤0.4% @ 425 - 675nm

Wavelength Range (nm):
425 - 675

Environmental & Durability Factors

Operating Temperature (°C):
-20°C to 80°C

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

REACH 241:
Compliant

Country of Origin:
Japan

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

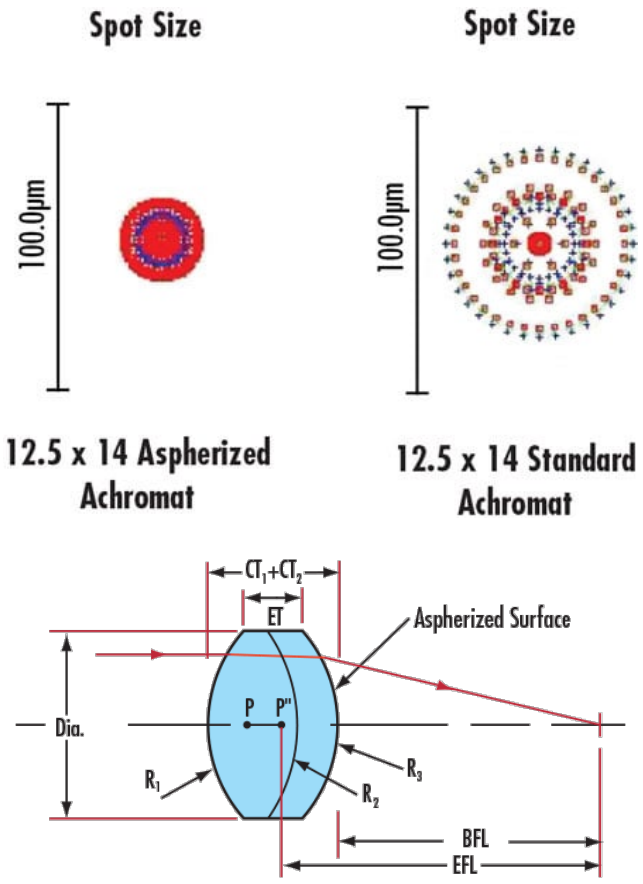
Product Details

- Unique Innovative Design, Low Cost, Color-Corrected Asphere
- Better Color Correction than Standard Achromatic Lenses
- Similar Spherical Aberration Correction to Machined Aspheres
- Prescription Information Available

TECHSPEC® Aspherized Achromats bridge the gap between color-corrected achromats and spherical aberration-corrected aspheres. This unique design results in a cost-effective, color-corrected aspheric component. The doublet lenses consist of two cemented elements matched for their color-correction ability and small RMS spot size. The second surface of the doublet is fused with a molded polymer aspheric surface. These molds create a stable aspheric contour, removing or reducing wavefront errors present in typical achromats while boosting numerical aperture. TECHSPEC Aspherized Achromats' typical applications include fiber optic focusing or collimation, image relay, inspection, scanning, and high numerical aperture imaging.

These lenses were honored with the PhAST/Laser Focus World Innovation Award for Optics and Optical Components.

Technical Information



CT: Center Thickness, ET: Edge Thickness, R: Radius, P: Principal Plane, BFL: Back Focal Length, EFL: Effective Focal Length

Coating Curves

Compatible Mounts

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