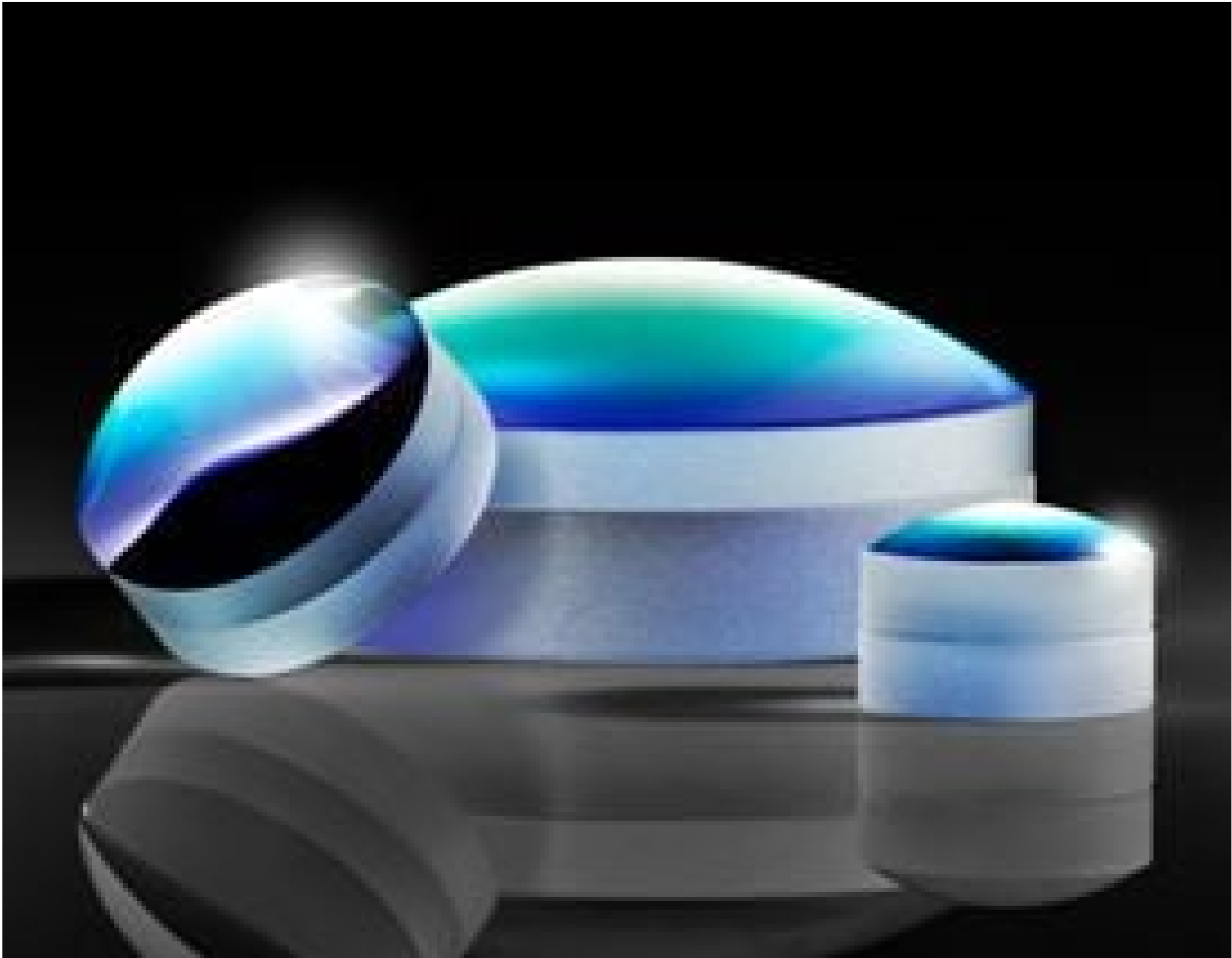
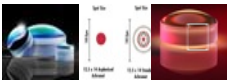


TECHSPEC[®] 25mm Diameter x 50mm EFL Aspherized Achromatic Lens



Aspherized Achromatic Lenses



Stock **#49-665** 20+ In Stock

-

1

+

£116^{.44}

ADD TO CART

Volume Pricing	
Qty 1-5	£116.44 each
Qty 6-25	£92.80 each
Qty 26-49	£85.37 each
Need More?	Request Quote

i Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

VIS 0° Coating on First Surface, Second Surface is Aspheric Polymer		Note:
Achromatic Lens		Type:
Physical & Mechanical Properties		
Diameter (mm):		
25.00 +0.00/-0.05		
Clear Aperture CA (mm):		
23.00		
Centering (arcmin):		
≤5		
Center Thickness CT (mm):		
11.58		
Center Thickness CT 1 (mm):		
9.00		
Center Thickness CT 2 (mm):		
2.58		
Edge Thickness ET (mm):		
7.42		
Optical Properties		
Effective Focal Length EFL (mm):		
50.00		
Back Focal Length BFL (mm):		
44.12		
Focal Length Specification Wavelength (nm):		
587.6		
Radius R ₁ (mm):		
28.50		
Radius R ₂ (mm):		
31.00		
Radius R ₃ (mm):		
63.00		
Substrate:		
S-FSL5 / S-TIH13		
Surface Quality:		
60-40, glass surfaces only		
f/#:		
2.00		
Numerical Aperture NA:		
0.25		
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		
Reach 219:		
Compliant		
Certificate of Conformance:		
View		

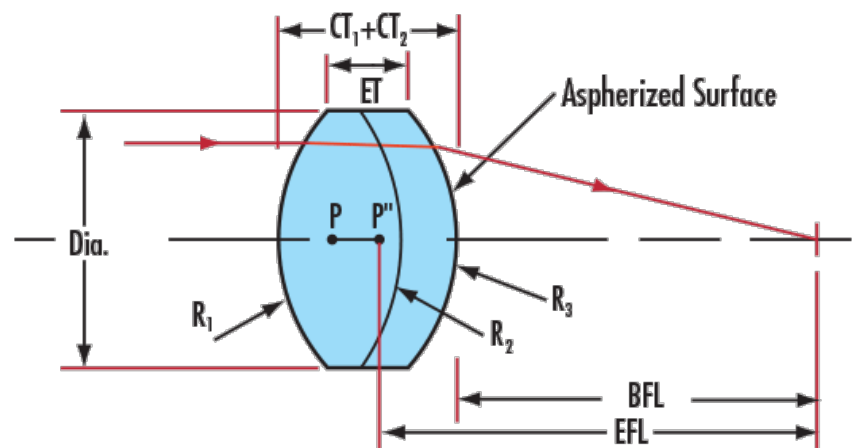
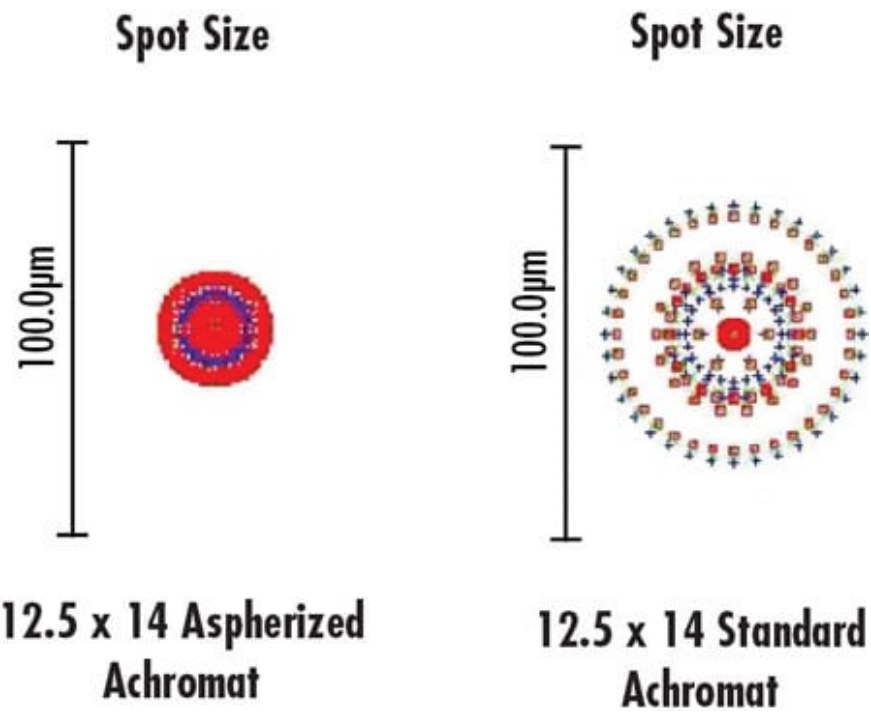
PRODUCT DETAILS

- 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