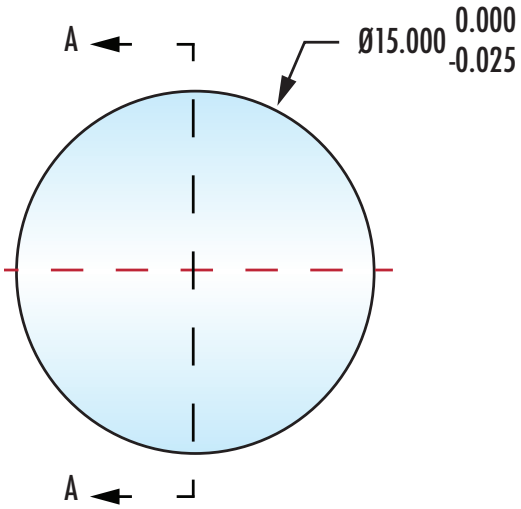
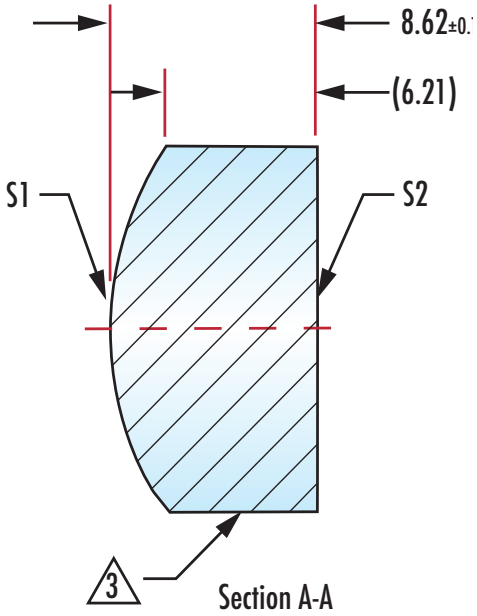
λ/40 ASPHERIC LENSES

TECHSPEC® ASPHERIC LENSES WITH λ/40 RMS ASPHERE FIGURE ERROR

TECHSPEC® λ/40 Aspheric Lenses guarantee better than λ/40 wave aspheric figure error. Achieved via precision magneto-rheological finishing (MRF), these aspheres offer high numerical apertures with diameters ranging from 15 to 50mm and are ideal for a variety of imaging and low light level applications. Each TECHSPEC® λ/40 Aspheric Lens is individually measured and a 3D surface profile is included. For diffraction-limited aspheres designed at specific Nd:YAG laser wavelengths, see our TECHSPEC λ/40 Laser Grade Aspheric Lenses.





FEATURES
CNC Polished
Eliminate Spherical Aberrations
0.016µm RMS Aspheric Figure Error
40-20 Surface Quality
15mm – 50mm Diameter Options
High Numerical Apertures
Designed, Specified, and/or Manufactured by Edmund Optics®

APPLICATIONS
Laser Equipment
Detectors
Cytometers/Cell Counters
Spectrometry
Surgical Systems
Test Equipment
Imaging (Inspection, Cameras, OCT, Fluorescence)

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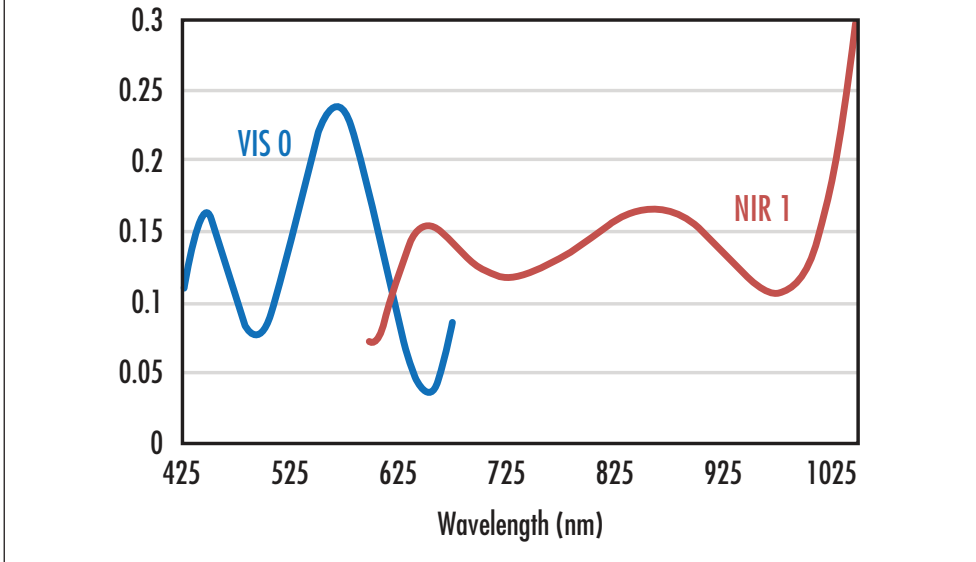
COMMON CHARACTERISTICS	
Design Wavelength	355nm, 532nm, or 1064nm
Clear Aperture	90%
Conjugate Distance	Infinite
RoHS	Compliant

UNIQUE SPECIFICATIONS

Parameter	Lower Cost	This Family	Higher Precision
	High-Precision	λ/40	λ/40 Laser Grade
Asphere Figure Error @ 632.8nm (μm RMS)	0.25	0.016	0.016
Surface Quality	40-20	40-20	10-5
Diameter Tolerance	+0.0/-0.025	+0.0/-0.025	+0.00/-0.05
Material	N-SF5, N-SF6, N-BK7	L-BAL35, N-SF6, N-BK7	Fused Silica

COMMONLY SELECTED COATINGS

Coating Name	Spectral Range (nm)	Reflection	Environmental Conditions
VIS 0°	425-675	$R_{avg} < 1.5\%$	MIL-PRF-13830B: Pass per C.3.8.4
NIR I	600-1050	$R_{avg} < 1.5\%$	MIL-PRF-13830B: Pass per C.3.8.4



Custom coating options for all products are available upon request.