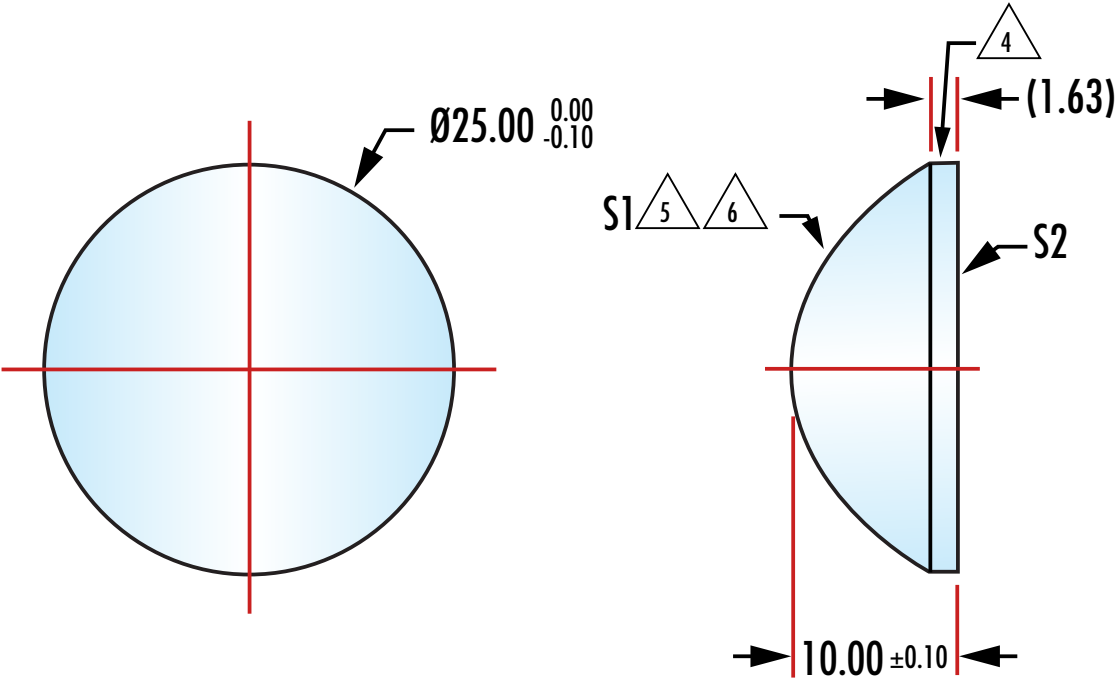


CALIBRATION GRADE PRECISION ASPHERIC LENSES

TECHSPEC® CNC POLISHED PRECISION CALIBRATION GRADE ASPHERIC LENSES

Our TECHSPEC® Calibration Grade Precision Aspheric Lenses offer the ultimate in performance and precision available from an off-the-shelf polished aspheric lenses. Featuring improved aspheric surface figure, surface quality, and centering specification over our TECHSPEC® Precision Aspheric lenses, these optical components are ideal for integration into R&D and OEM applications alike. With high numerical apertures, the lenses are ideal for improving the efficiency of low light level detection systems, or for applications requiring a compact optical path. Each aspheric lens is serialized and provided with a complete metrology data package. The test data package includes a surface profile performed on our Taylor Hobson Talysurf Profilometer, an interferogram of the spherical surface, and tested values for diameter, center thickness, and centration. For custom designed calibration grade precision aspheric lenses, coating requirements, or volume pricing, please contact our Sales Department.



FEATURES
CNC Polished
Eliminate Spherical Aberrations
0.25µm RMS Aspheric Figure Error
40-20 Surface Quality
10mm – 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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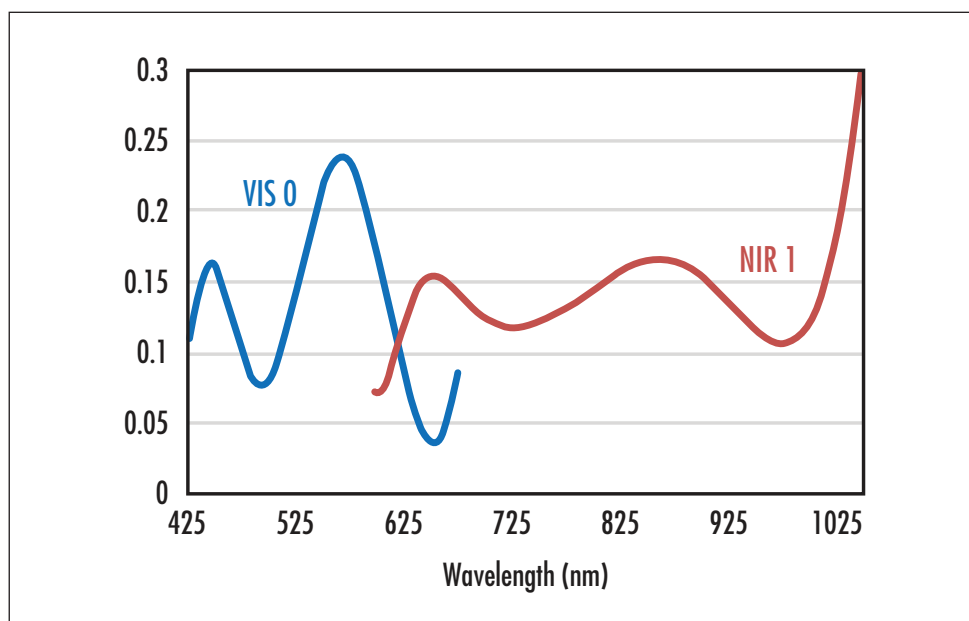
COMMON CHARACTERISTICS	
Design Wavelength	587.6nm
Surface Type	Aspheric
Clear Aperture	90%
Conjugate Distance	Infinite
RoHS	Compliant

UNIQUE SPECIFICATIONS

Parameter	Lower Cost	This Family	Higher Precision
	Precision	Calibration Grade	$\lambda/40$
Asphere Figure Error @ 632.8nm ($\mu\text{m RMS}$)	0.75	0.25	0.016
Surface Quality	60-40	20-10	40-20
Diameter Tolerance	+0.0/-0.1	+0.0/-0.1	+0.00/-0.025
Material	L-BAL35, N-SF6, N-BK7	L-BAL35, N-SF6, N-BK7	N-SF5, N-SF6, N-BK7

COMMON COATING OPTIONS

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



Custom coating options for all products are available upon request.