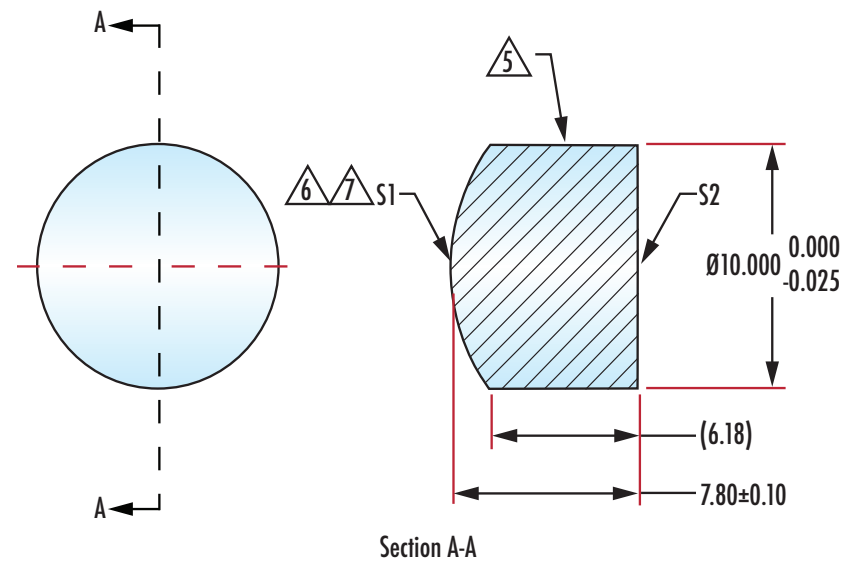


HIGH-PRECISION ASPHERIC LENSES

TECHSPEC® CNC Polished High-Precision Aspheric Lenses with N-BK7 Substrates

TECHSPEC® High Precision Aspheric Lenses are CNC polished aspheric lenses that feature a 0.25µm 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® High Precision Aspheric Lenses** are available with diameters from 10 to 50mm and high numerical apertures to maximize light throughput.

Sample Drawing (#37415)



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)

COMMON CHARACTERISTICS

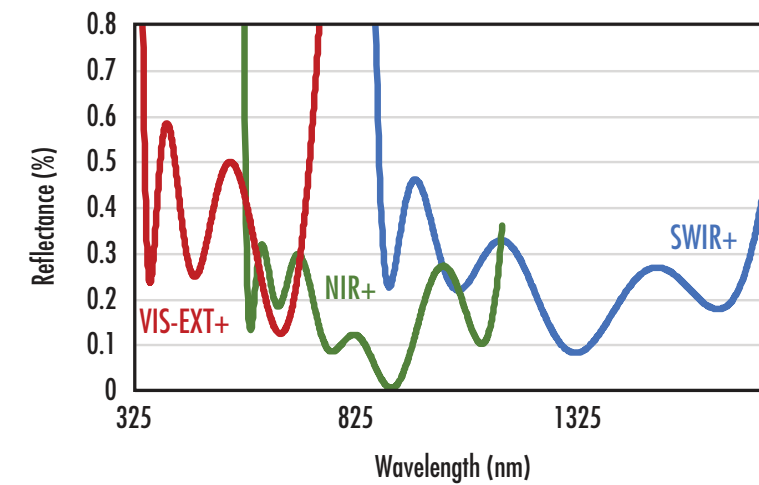
Design Wavelength	587.6nm
Surface Type	Aspheric
Clear Aperture	90%
Conjugate Distance	Infinite
RoHS	Compliant

UNIQUE SPECIFICATIONS

Parameter	Lower Cost	This Family	Higher precision
	High-Precision	High-Precision	λ/40 Laser Grade
Asphere Figure Error @ 632.8nm (µm RMS)	0.75	0.25	0.016
Surface Quality	60-40	40-20	40-20
Diameter Tolerance	+0.0/-0.1	+0.00/-0.025	+0.00/-0.025
Material	L-BAL35, N-SF6, N-BK7	N-SF5, N-SF6, N-BK7	N-SF5, N-SF6, N-BK7

STANDARD COATING OPTIONS

Coating Name	Spectral Range (nm)	Reflection	Environmental Conditions
VIS-EXT+	350-700	$R_{avg} < 0.5\%$; $R_{obs} < 1.5\%$	MIL-PRF-13830B: Pass per C.3.8.4
NIR+	600-1050	$R_{avg} < 0.5\%$; $R_{obs} < 1.5\%$	MIL-PRF-13830B: Pass per C.3.8.4
SWIR+	900-1700	$R_{avg} < 0.5\%$; $R_{obs} < 1\%$	MIL-PRF-13830B: Pass per C.3.8.4



Custom coating options for all products are available upon request.