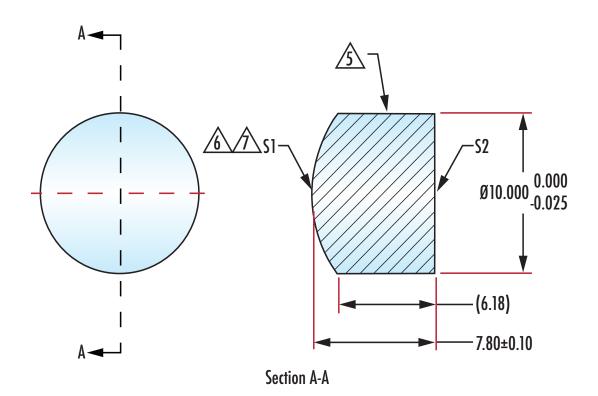
## HIGH-PRECISION ASPHERIC LENSES TECHSPEC® CNC POLISHED HIGH-PRECISION ASPHERIC LENSES

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 re-quire spherical aberration correction, including imaging and laser fo-cusing 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.



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)	



# NEAR-INFRARED (NIR) ASPHERIC LENSES

### TECHSPEC<sup>®</sup> NEAR-INFRARED (NIR) PRECISION ASPHERIC LENSES

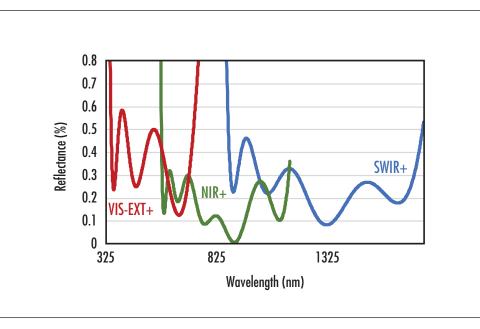
COMMON CHARACTERISTICS			
Design Wavelength	587.6nm		
Surface Type	Aspheric		
Clear Aperture	90%		
Conjugate Distance	Infinite		
RoHS	Compliant		

#### **UNIQUE SPECIFICATIONS**

Parameter	Lower Cost	This Family	Higher Precision
	Precision	High-Precision	λ/40
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	<b>Environmental Conditions</b>
VIS-EXT+	350-700	$R_{avg} < 0.5\%$ ; $R_{abs} < 1.5\%$	MIL-PRF-13830B: Pass per C.3.8.4
NIR+	600-1050	$R_{avg} < 0.5\%$ ; $R_{abs} < 1.5\%$	MIL-PRF-13830B: Pass per C.3.8.4
SWIR+	900-1700	$R_{_{ovg}} < 0.5\%$ ; $R_{_{obs}} < 1\%$	MIL-PRF-13830B: Pass per C.3.8.4



Custom coating options for all products are available upon request.

