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TECHSPEC® 12.5mm Dia +1.00λ Aberration, Spherical Aberration Plate

Spherical Aberration Compensation Plates

Stock **#66-753** **20+ In Stock**

- 1 + **€477**.00

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Volume Pricing	
Qty 1+	**€477,00** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:
Specialty Window

Type of Window:
Glass

Physical & Mechanical Properties

Clear Aperture CA (mm):
11.25

Diameter (mm):

12.50 +0.00/-0.25

Thickness (mm):
3.00 ±0.20

Parallelism (arcmin):
<1

Dimensional Tolerance (mm):
+0.00/-0.25

Bevel:
Protective as needed

Clear Aperture (%):
>85

Edges:
Fine Ground

Poisson's Ratio:
0.21

Young's Modulus (GPa):
82

Knoop Hardness (kg/mm^2):
610.00

Optical Properties

Coating:
Uncoated

Substrate:
N-BK7

Index of Refraction (n_d):
1.516

Surface Quality:
60-40

Abbe Number (v_d):
64.17

Aberration:
+1.00λ±*N*/16 @ 587nm

Wavelength Range (nm):
350 - 2200

Material Properties

Density (g/cm^3):
2.51

Coefficient of Thermal Expansion CTE (10^{-6}/°C):
7.1 (-30 to +70°C)
8.3 (+20 to +300°C)

Regulatory Compliance

Certificate of Conformance:
View

Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our custom manufacturing capabilities or submit an inquiry here.

Product Details

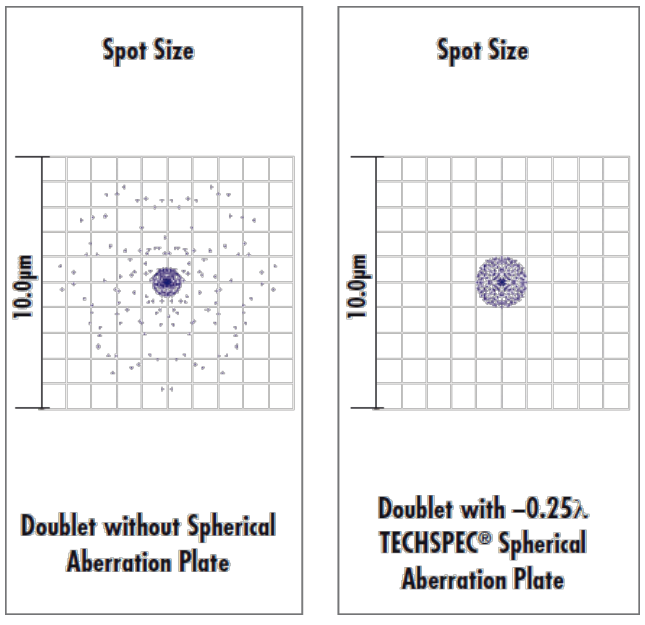
- Precision N-BK7 Substrate
- Optimized for Use in Collimated Light with Small Fields of View
- Transmitted Wave Front Accurate to *N*/16

Many optical systems experience some level of spherical aberrations which result in a loss of image quality and overall system performance. Our line of TECHSPEC® Spherical Aberration Compensation Plates are designed to compensate and correct known amounts of spherical aberration at the specified wavelengths. The aberration plates should be used in collimated space and placed near a pupil. They are excellent for correcting spherical aberrations in systems that have small fields of view.

Spherical Aberration Compensation Plates can be combined to induce the desired amount of compensatory spherical aberration. Negative sign plates create over corrected spherical aberration. Positive plates create under corrected spherical aberration.

Note: The arrow on the spherical aberration compensation plates points in the direction of light travel.

Technical Information



Compatible Mounts