

TECHSPEC<sup>®</sup> 12.5mm Dia -1.00λ Aberration, Spherical Aberration Plate



Spherical Aberration Compensation Plates

Stock **#66-754** **3 In Stock**

-

1

+

£381<sup>60</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | £381.60 each                  |
| Need More?     | <a href="#">Request Quote</a> |

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Specialty Window

Type:

Physical & Mechanical Properties

Bevel:

|                      |                          |
|----------------------|--------------------------|
| Protective as needed |                          |
| >85                  | Clear Aperture (%):      |
| 11.25                | Clear Aperture CA (mm):  |
| 12.50 +0.00/-0.25    | Diameter (mm):           |
| 3.00 ±0.20           | Thickness (mm):          |
| Fine Ground          | Edges:                   |
| 610.00               | Knoop Hardness (kg/mm²): |
| <1                   | Parallelism (arcmin):    |
| 0.21                 | Poisson's Ratio:         |
| 82                   | Young's Modulus (GPa):   |

### Optical Properties

|                     |                                        |
|---------------------|----------------------------------------|
| -1.00λ±λ/16 @ 587nm | Aberration:                            |
| 64.17               | Abbe Number (v <sub>d</sub> ):         |
| Uncoated            | Coating:                               |
| 1.516               | Index of Refraction (n <sub>d</sub> ): |
| N-BK7               | Substrate:                             |
| 60-40               | Surface Quality:                       |
| 350 - 2200          | Wavelength Range (nm):                 |

### Material Properties

|                                           |                                                              |
|-------------------------------------------|--------------------------------------------------------------|
| 7.1 (-30 to +70°C)<br>8.3 (+20 to +300°C) | Coefficient of Thermal Expansion CTE (10 <sup>-6</sup> /°C): |
| 2.51                                      | Density (g/cm³):                                             |

### Regulatory Compliance

|                      |                             |
|----------------------|-----------------------------|
| <a href="#">View</a> | Certificate of Conformance: |
|----------------------|-----------------------------|

## PRODUCT DETAILS

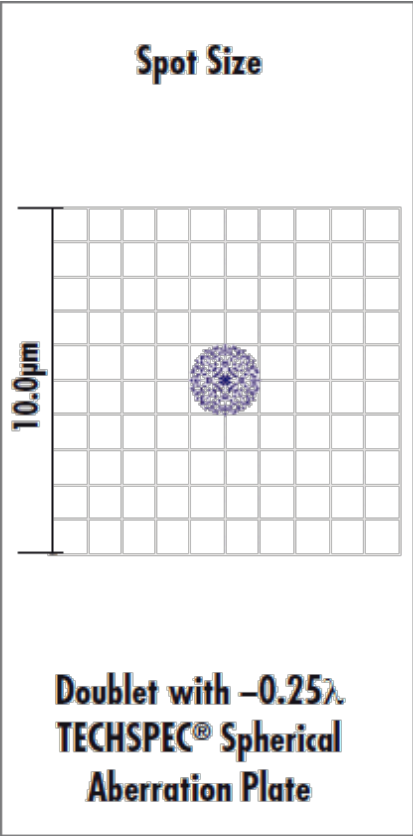
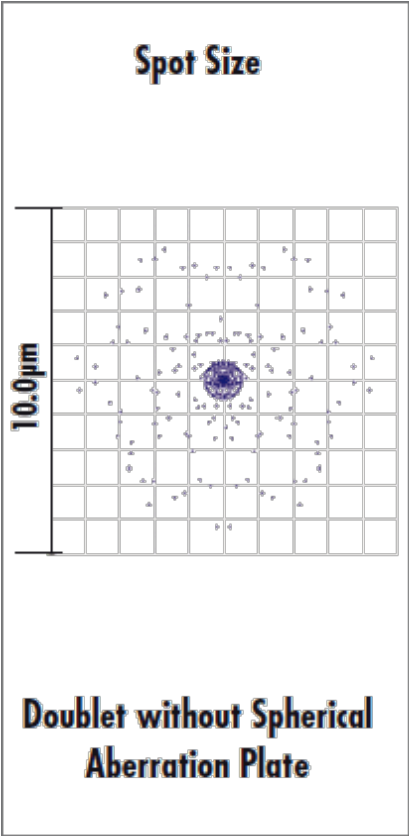
- Precision N-BK7 Substrate
- Optimized for Use in Collimated Light with Small Fields of View
- Transmitted Wave Front Accurate to λ/16

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



## CUSTOM

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](#).

## COMPATIBLE MOUNTS