

TECHSPEC<sup>®</sup> 25mm Dia. x 100mm FL NIR II Coated Calcium Fluoride PCX Lens



TECHSPEC Calcium Fluoride Plano-Convex (PCX) Lenses

Stock **#22-531** **2 In Stock**

-

1

+

£201<sup>ea</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | £201.60 each                  |
| Qty 6-25       | £161.60 each                  |
| Qty 26-49      | £152.00 each                  |
| Need More?     | <a href="#">Request Quote</a> |

**i** Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Plano-Convex Lens

Type:

Physical & Mechanical Properties

25.00 +0.00/-0.10

Diameter (mm):

Centering (arcmin):

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| <3                                  |                                      |
| Center Thickness CT (mm):           | 4.00 ±0.1                            |
| Edge Thickness ET (mm):             | 2.28                                 |
| Clear Aperture CA (mm):             | 24                                   |
| Bevel:                              | Protective as needed                 |
| Optical Properties                  |                                      |
| Effective Focal Length EFL (mm):    | 100.00 @ 266nm                       |
| Back Focal Length BFL (mm):         | 97.27                                |
| Coating:                            | NIR II (750-1550nm)                  |
| Substrate: <input type="checkbox"/> | Calcium Fluoride (CaF <sub>2</sub> ) |
| Surface Quality:                    | 40-20                                |
| Power (P-V) @ 632.8nm:              | λ                                    |
| Irregularity (P-V) @ 632.8nm:       | λ/2                                  |
| Radius R <sub>1</sub> (mm):         | 46.21                                |
| f/#:                                | 4.00                                 |
| Numerical Aperture NA:              | 0.13                                 |
| Wavelength Range (nm):              | 200 - 7000                           |
| Axis Orientation:                   | Random                               |

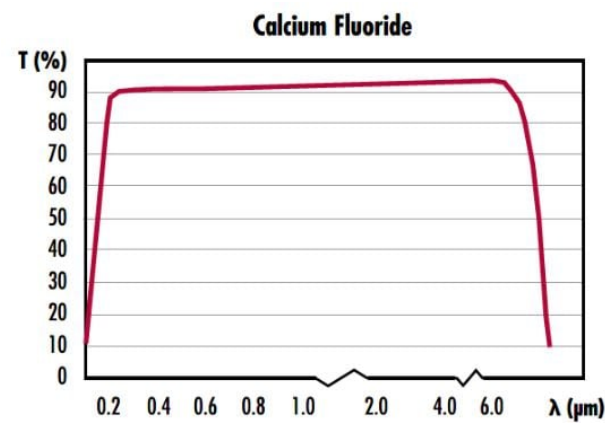
|                             |                           |
|-----------------------------|---------------------------|
| Regulatory Compliance       |                           |
| RoHS 2015:                  | <a href="#">Compliant</a> |
| Certificate of Conformance: | <a href="#">View</a>      |
| Reach 235:                  | <a href="#">Compliant</a> |

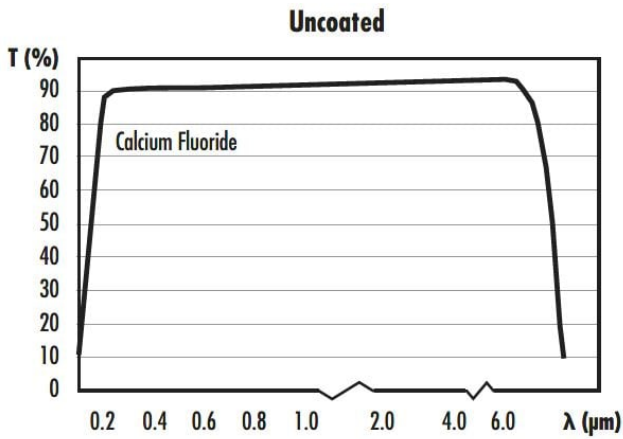
## Product Details

- Low Index of Refraction
- Vacuum Grade UV Substrate
- Uncoated, VIS-NIR, and NIR II Broadband AR Coating Options

TECHSPEC® Calcium Fluoride Plano-Convex Lenses are ideal for demanding applications that require superior performance from the ultraviolet through the mid-wave infrared spectra. The lenses' low refractive index, high laser damage threshold, and low axial and radial-stress birefringence are highly suitable for use with Excimer lasers or for integration into infrared systems. Additionally, calcium fluoride features low solubility and offers superior hardness to comparable fluoride-based substrates, making these PCX lenses capable of withstanding harsh environments and exposure to the elements. TECHSPEC® Calcium Fluoride Plano-Convex Lenses are offered in 12.5mm, 25mm, and 50mm diameters. The lenses are available uncoated, VIS-NIR, or with NIR II broadband AR coating options.

## Technical Information





## Special Handling

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality. Explore our [Optics Cleaning Resources](#) for step-by-step guides and best practices. For personalized assistance, [Email us](#) or [Chat](#) with our technical support team.



Component Handling Tools