

TECHSPEC<sup>®</sup> 12.5mm Dia. x 25mm FL VIS-NIR Coated Calcium Fluoride PCX Lens



TECHSPEC Calcium Fluoride Plano-Convex (PCX) Lenses

Stock **#22-516** 4 In Stock

-

1

+

C\$293<sup>83</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | C\$293.83 each                |
| Qty 6-25       | C\$234.47 each                |
| Qty 26-49      | C\$219.63 each                |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

SPECIFICATIONS

General

Type:

Plano-Convex Lens

Physical & Mechanical Properties

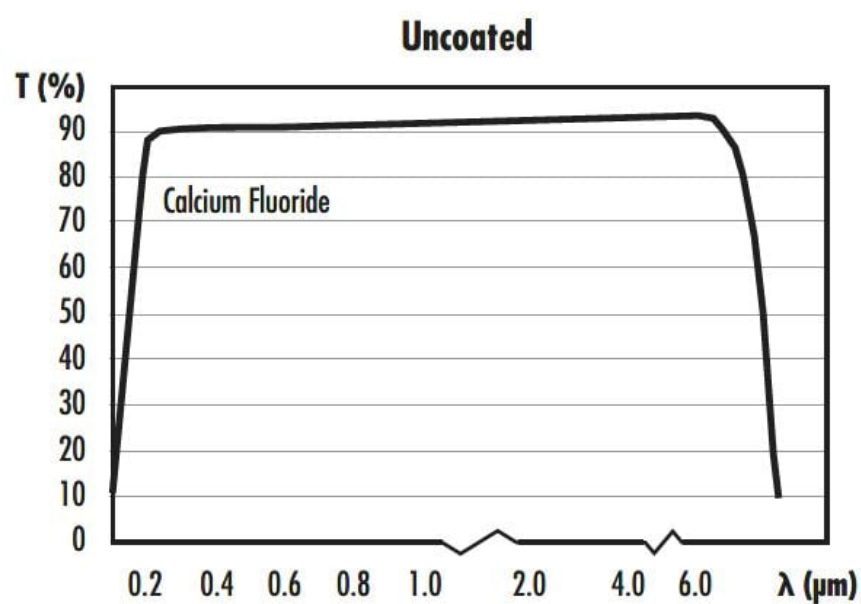
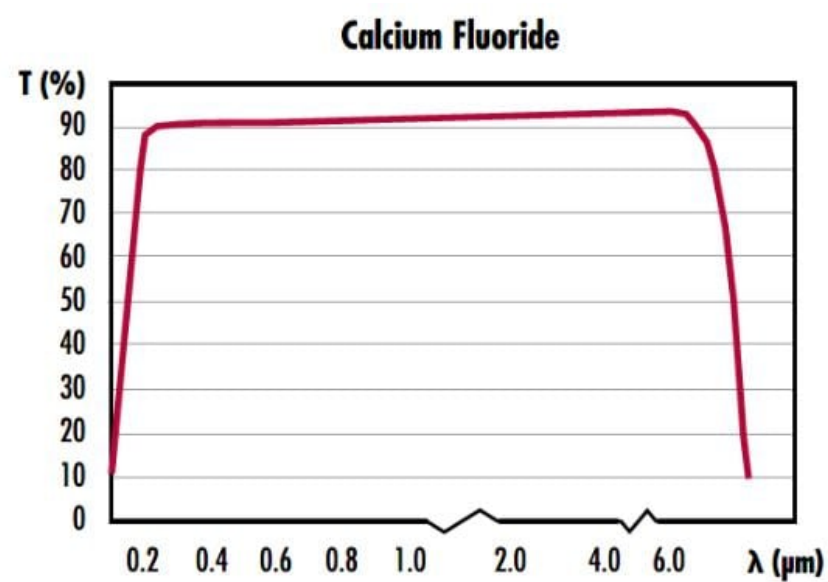
|                                      |                                  |
|--------------------------------------|----------------------------------|
| 12.50 +0.00/-0.10                    | Diameter (mm):                   |
| <3                                   | Centering (arcmin):              |
| 3.50 ±0.1                            | Center Thickness CT (mm):        |
| 1.66                                 | Edge Thickness ET (mm):          |
| 11.5                                 | Clear Aperture CA (mm):          |
| Protective as needed                 | Bevel:                           |
| Optical Properties                   |                                  |
| 25.00 @ 266nm                        | Effective Focal Length EFL (mm): |
| 22.61                                | Back Focal Length BFL (mm):      |
| VIS-NIR (400-1000nm)                 | Coating:                         |
| Calcium Fluoride (CaF <sub>2</sub> ) | Substrate: <input type="text"/>  |
| 40-20                                | Surface Quality:                 |
| λ                                    | Power (P-V) @ 632.8nm:           |
| λ/2                                  | Irregularity (P-V) @ 632.8nm:    |
| 11.55                                | Radius R <sub>1</sub> (mm):      |
| 2.00                                 | f/#:                             |
| 0.25                                 | Numerical Aperture NA:           |
| 200 - 7000                           | Wavelength Range (nm):           |
| Random                               | Axis Orientation:                |
| Regulatory Compliance                |                                  |
| Compliant                            | RoHS 2015:                       |
| View                                 | Certificate of Conformance:      |
| Compliant                            | Reach 235:                       |

## 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

## COATING CURVES