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TECHSPEC® 20mm Diameter, BBAR (1650-3000nm) Coated, Calcium Fluoride Window



TECHSPEC Calcium Fluoride (CaF₂) Windows

Stock #15-966 **16 In Stock**

⊖ 1 ⊕ **\$\$296⁰⁰**

ADD TO CART

Volume Pricing	
Qty 1-10	\$\$296.80 each
Qty 11-25	\$\$261.80 each
Qty 26-49	\$\$246.40 each
Need More?	Request Quote

Product Downloads

General

Protective Window **Type:**
Crystal **Type of Window:**

Physical & Mechanical Properties

18.00 **Clear Aperture CA (mm):**

20.00 +0.0/-0.1	Diameter (mm):
2.00 ±0.1	Thickness (mm):
<1	Parallelism (arcmin):
Protective as needed	Bevel:
90	Clear Aperture (%):
Fine Ground	Edges:
0.26	Poisson's Ratio:
75.8	Young's Modulus (GPa):
158.30	Knoop Hardness (kg/mm²):

Optical Properties

BBAR (1650-3000nm)	Coating:
Calcium Fluoride (CaF ₂) Vacuum UV Grade	Substrate: <input type="checkbox"/>
1.434	Index of Refraction (n_d):
40-20	Surface Quality:
94.99	Abbe Number (v_d):
Random	Axis Orientation:
R _{avg} <1% @ 1650 - 3000nm R _{abs} <2% @ 1650 - 3000nm	Coating Specification:
1650 - 3000	Wavelength Range (nm):
λ/2	Surface Flatness (P-V):

Material Properties

3.18	Density (g/cm³):
18.85	Coefficient of Thermal Expansion CTE (10⁻⁶/°C):

Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 235:

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

- Low Absorption, High Transmission UV Grade Calcium Fluoride
- Low Index of Refraction
- AR Coatings Spanning 250 - 5000nm Available
- [Calcium Fluoride \(CaF₂\) Wedged Windows](#) also Available

coatings are available spanning wavelength regions from the Ultra-Violet (UV) to the Mid-Wave Infrared (MMIR). The high bulk damage threshold of calcium fluoride coupled with its low absorption makes it a popular choice for use with laser systems, including excimer lasers. TECHSPEC® Calcium Fluoride (CaF₂) Windows are ideal for use as protective windows for gas detectors operating in the Vacuum UV (VUV) and MMIR, UV spectroscopy systems, cryogenically cooled thermal imaging systems, and as substrates for coatings requiring wideband substrate transmission.

Note: Calcium fluoride is a relatively soft optical material and is more susceptible to scratches than typical glass windows. Calcium fluoride is also susceptible to thermal shock.

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

Compatible Mounts