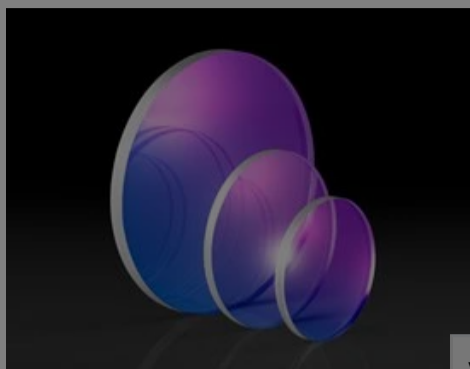


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TECHSPEC® 40mm



TECHSPEC Calcium Fluoride (CaF₂) Windows

Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

Select Your Country/Region: European Union

Submit

1

€261⁰⁰

ADD TO CART

Volume Pricing

Qty 1-10	€261,00 each
Qty 11-25	€230,00 each
Qty 26-49	€217,00 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

- STEP:step
- PDF Drawing:pdf
- IGES:igs
- eDrawing:eprt
- EO Spec Sheet
- [Download All](#)

General

Type: Protective Window

Type of Window: Crystal

Physical & Mechanical Properties

Clear Aperture CA (mm): 36.00

Diameter (mm): 40.00 +0.0/-0.1

Thickness (mm): 3.00 ±0.1

Parallelism (arcmin): <1

Bevel: Protective as needed

Clear Aperture (%): 90

Edges: Fine Ground

Poisson's Ratio: 0.26

Young's Modulus (GPa): 75.8

Knoop Hardness (kg/mm²): 158.30

Optical Properties

Coating: Uncoated

Substrate: Calcium Fluoride (CaF₂) Vacuum UV Grade

Index of Refraction (n_d): 1.434

Surface Quality: 40-20

Abbe Number (v_d): 94.99

Axis Orientation: Random

Wavelength Range (nm): 200 - 7000

Surface Flatness (P-V): λ/2

Material Properties

Density (g/cm³): 3.18

Coefficient of Thermal Expansion CTE (10⁻⁶/°C): 18.85

Regulatory Compliance

RoHS 2015: **Compliant**

Reach 240: **Compliant**

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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

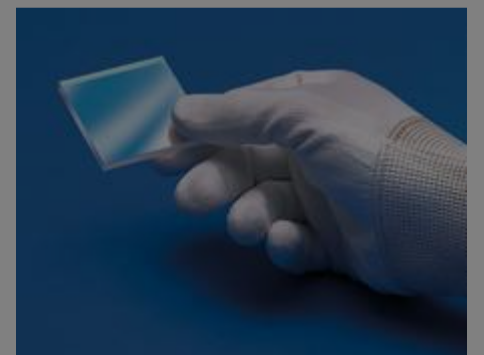
TECHSPEC® Calcium Fluoride (CaF₂) Windows offer a low index of refraction, providing high transmission from 200 - 7000nm when used uncoated. To further increase transmission and reduce back reflections, a variety of AR coatings are available spanning wavelength regions from the Ultra-Violet (UV) to the Mid-Wave Infrared (MWIR). 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 MWIR, 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

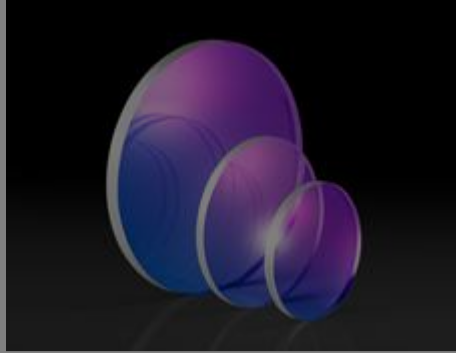
Special Handling

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

Related Products



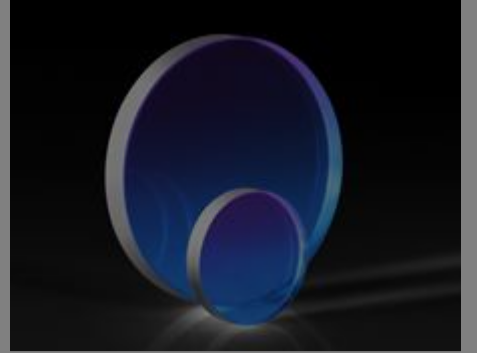
Calcium Fluoride Optics



SiO₂



Si₃N₄

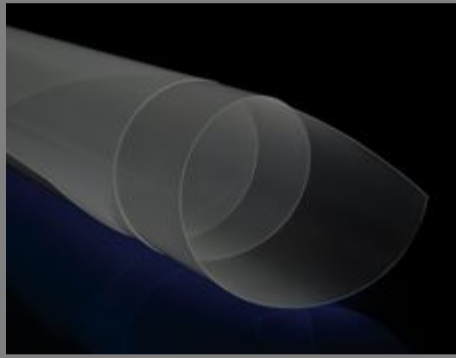


Magnesium Fluoride (MgF₂) Windows

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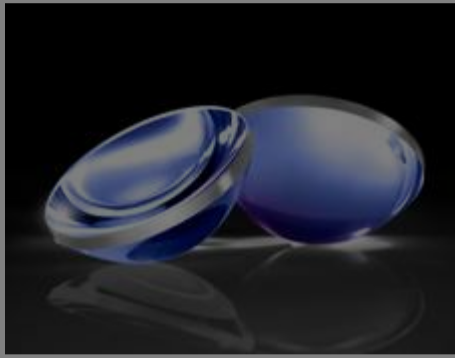
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Frequently Purchased Together



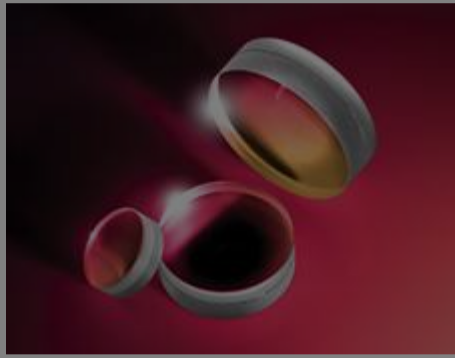
#32-808 - 12" x 12" Translucent, IR Material Window
€88,50

Qty



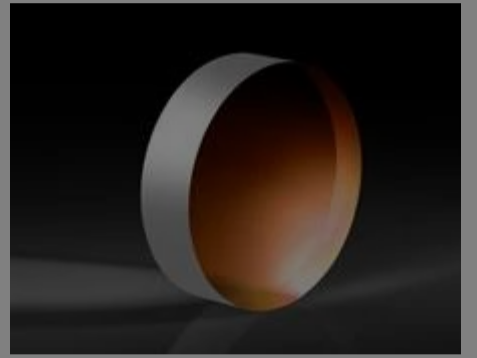
#33-013 - 15mm Dia 0.60 NA, 532nm V-Coat, Aspheric Lens
€557,00

Qty



#33-210 - 25mm Dia. x 75mm FL, YAG-BBAR Coated, Achromatic Lens
€128,00

Qty



#34-600 - 50mm Dia., 2mm Thick, Uncoated λ/10 Fused Silica Window
€280,00

Qty

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	40.0mm Optic Dia., Optic Mount	Fixed		#64-566	€32,75 Request Quote	10 In Stock <input type="text" value="1"/>
	9.5 - 73.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#36-605	€83,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	7.0 - 40.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-676	€106,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	10.0 - 60.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-530	€108,00 Request Quote	CONTACT US <input type="text" value="1"/>
	19.5 - 108.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#03-670	€114,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	7.0 - 67.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-669	€116,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	8.0 - 118.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-666	€120,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	5.0 - 100.0mm Optic Dia., Self-	Fixed		#16-078	€410,00 Request	CONTACT US <input type="text" value="1"/>

	Title	Type	Compare	Stock Number	Price	Buy
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Quote

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- Application Note
- Scientific Paper
- Video
- Glossary
- Technical Tool
- FAQ

APPLICATION NOTE

Anti-Reflection
(AR) Coatings

APPLICATION NOTE

An
Introduction to
Optical
Coatings

SCIENTIFIC PAPER

Advantages of
using
engineered
chalcogenide...

VIDEO

Infrared Light

GLOSSARY

Short Wave
Infrared
(SWIR)

TECHNICAL TOOL

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