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50.8mm Dia., 5mm Thick, 3° Wedge, ISP Optics Calcium Fluoride (CaF₂) Wedged Window | CF-WW3-50-5

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Calcium Fluoride (CaF₂) Wedged Windows

Stock **#24-540** CLEARANCE **1 In Stock**

-

1

+

₹29,255

Price inclusive of all taxes

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Volume Pricing	
Qty 1+	₹29,255 each
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Product Downloads

General	
CF-WW3-50-5	Model Number:
Protective Window	Type:
Physical & Mechanical Properties	
	Clear Aperture CA (mm):

43.18	
	Diameter (mm):
50.80 +0.00/-0.13	
	Thickness (mm):
5.00 ±0.13	
	Bevel:
Protective as needed	
	Clear Aperture (%):
85	
	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 (CaF ₂)	
	Index of Refraction (n _d):
1.495	
	Surface Quality:
60-40	
	Abbe Number (v _d):
94.99	
	Axis Orientation:
Random	
	Wavelength Range (nm):
200 - 7000	
	Surface Flatness (P-V):
2λ @ 633nm	
	Wedge Angle (°):
3° ±0.25	

Material Properties

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

Regulatory Compliance

	RoHS 2015:
Compliant	
	Certificate of Conformance:
View	
	Reach 240:
Compliant	
	Country of Origin:
Latvia	
	Imported By:
Edmund Optics India Private Limited	

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

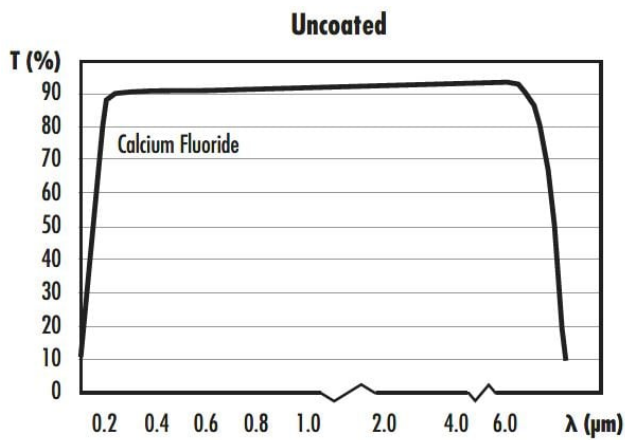
Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

Product Details

- 30 Arcmin Wedge
- Low Absorption, High Transmission
- Ideal for Harsh Environments
- [Precision Flat Calcium Fluoride Windows](#) Also Available

ISP Optics Calcium Fluoride (CaF₂) Wedged Windows feature a 30 arcmin wedge to eliminate fringe patterns from etalon effects and to prevent cavity feedback. Calcium fluoride's combination of low absorption and high damage threshold make these windows a popular choice for free-space lasers. Its low refractive index allows it to be used without an anti-reflective coating. ISP Optics Calcium Fluoride (CaF₂) Wedged Windows feature low water solubility and offer superior hardness compared to other fluoride-based substrates, making them suitable for laser applications in harsh environments. Calcium Fluoride (CaF₂) Wedged Windows provide laser output protection from environmental effects and are ideal for beam sampling applications.

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