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50.8mm Dia., 1mm Thick, Uncoated, ISP Optics Zinc Selenide (ZnSe) Window | ZC-W-50-1

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Stock **#24-658** CLEARANCE **5 In Stock**

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1

+

 ₹36,440

 Price inclusive of all taxes

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Volume Pricing	
Qty 1+	₹36,440 each
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Product Downloads

General	
ZC-W-50-1	Model Number:
Protective Window	Type:
Physical & Mechanical Properties	
	Clear Aperture CA (mm):

43.18	
	Diameter (mm):
50.80 +0.00/-0.13	
	Thickness (mm):
1.00 ±0.13	
	Parallelism (arcmin):
<3	
	Bevel:
Protective as needed	
	Clear Aperture (%):
85	
	Edges:
Fine Ground	
	Poisson's Ratio:
0.28	
	Young's Modulus (GPa):
67.2	
	Knoop Hardness (kg/mm²):
120.00	

Optical Properties

	Coating:
Uncoated	
	Substrate: ☐
Zinc Selenide (ZnSe)	
	Index of Refraction (n _d):
2.631	
	Surface Quality:
60-40	
	Wavelength Range (nm):
600 - 18000	
	Surface Flatness (P-V):
λ/20 @ 10.6μm	

Material Properties

	Density (g/cm³):
5.27	
	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):
7.57	

Regulatory Compliance

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

Product Details

- Low Dispersion and Absorption from 0.6 – 18μm
- High Resistance to Thermal Shock
- Ideal for Thermal Imaging, FLIR, and Medical Systems

ISP Optics Zinc Selenide (ZnSe) Windows feature low absorption and low dispersion across a wide wavelength range from the visible to the infrared spectrum. This makes Zinc Selenide ideal for a wide array of infrared applications including thermal imaging, FLIR, and medical systems. Zinc Selenide (ZnSe) is a relatively soft material that scratches easily and it is not recommended in harsh environments because its Knoop Hardness is only 120. ISP Optics Zinc Selenide (ZnSe) Windows are particularly useful for 10.6μm CO2 laser applications, due to its low absorption. These windows are available uncoated or with Broadband Anti-Reflection (BBAR) coating options for 2 - 13μm or 8 - 12μm for increased transmission.

Note: Special care should be taken when handling Zinc Selenide as it is a toxic material. Always wear rubber or plastic gloves to avoid risk of contamination.

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

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