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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

⊖ 1 ⊕ MRP ₹37,696

📌 Price inclusive of all taxes

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General

ZC-W-50-1 **Model Number:**

Protective Window **Type:**

Crystal **Type of Window:**

Physical & Mechanical Properties

43.18	Clear Aperture CA (mm):
50.80 +0.00/-0.13	Diameter (mm):
1.00 ±0.13	Thickness (mm):
<3	Parallelism (arcmin):
Protective as needed	Bevel:
85	Clear Aperture (%):
Fine Ground	Edges:
0.28	Poisson's Ratio:
67.2	Young's Modulus (GPa):
120.00	Knoop Hardness (kg/mm ²):

Optical Properties

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

Material Properties

5.27	Density (g/cm ³):
7.57	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):

Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 240:
Latvia	Country of Origin:
Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91- 80-6845 0000	Imported By:

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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