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38.1mm Dia., 3mm Thick, 3° Wedge, ISP Optics Zinc Selenide (ZnSe) Wedged Window | ZC-WW3-38-3

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- 1 + £464.⁰⁰

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General

Model Number:
ZC-WW3-38-3

Type:
Protective Window

Type of Window:

Physical & Mechanical Properties

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

38.10 +0.00/-0.13 **Diameter (mm):**

3.00 ±0.13 **Thickness (mm):**

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/mm²):**

Optical Properties

Uncoated **Coating:**

Zinc Selenide (ZnSe) **Substrate:**

2.631 **Index of Refraction (n_d):**

60-40 **Surface Quality:**

600 - 18000 **Wavelength Range (nm):**

2λ @ 10.6μm **Surface Flatness (P-V):**

3° ±0.5 **Wedge Angle (°):**

Material Properties

5.27 **Density (g/cm³):**

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

Regulatory Compliance

Compliant **RoHS 2015:**

View **Certificate of Conformance:**

Compliant **Reach 240:**

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

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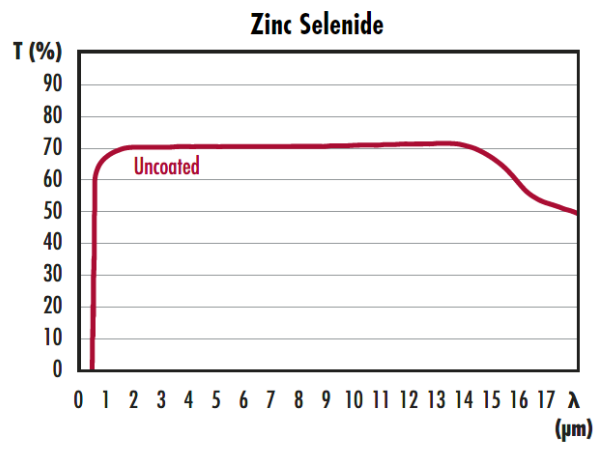
Product Details

- 30 Arcmin and 3° Wedge Versions Available
- Low Dispersion
- Eliminate Etalon Effect and Cavity Feedback
- [Precision Flat Zinc Selenide Windows](#) Also Available

ISP Optics Zinc Selenide (ZnSe) Wedged Windows feature a 30 arcmin or 3° wedge to eliminate fringe patterns from etalon effects as well as prevent cavity feedback. Zinc selenide has wide usage in high power CO₂ laser systems due to its low absorption and high resistance to thermal shock. ISP Optics Zinc Selenide (ZnSe) Wedge Windows feature a broad wavelength range with excellent transmission in the IR, making them ideal for a wide variety of IR applications including thermal imaging, FLIR, and medical diagnostic systems.

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.

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