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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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Stock **#24-686** CLEARANCE CONTACT US

⊖ 1 ⊕ **A\$928<sup>00</sup>**

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## Product Downloads

### General

Protective Window **Type:**

ZC-WW3-38-3 **Model Number:**

### Physical & Mechanical Properties

Protective as needed	<b>Bevel:</b>
85	<b>Clear Aperture (%):</b>
32.38	<b>Clear Aperture CA (mm):</b>
38.10 +0.00/-0.13	<b>Diameter (mm):</b>
3.00 ±0.13	<b>Thickness (mm):</b>
Fine Ground	<b>Edges:</b>
120.00	<b>Knoop Hardness (kg/mm<sup>2</sup>):</b>
0.28	<b>Poisson's Ratio:</b>
67.2	<b>Young's Modulus (GPa):</b>

## Optical Properties

Uncoated	<b>Coating:</b>
2.631	<b>Index of Refraction (n<sub>d</sub>):</b>
Zinc Selenide (ZnSe)	<b>Substrate:</b>
2λ @ 10.6μm	<b>Surface Flatness (P-V):</b>
60-40	<b>Surface Quality:</b>
600 - 18000	<b>Wavelength Range (nm):</b>
3° ±0.5	<b>Wedge Angle (°):</b>

## Material Properties

7.57	<b>Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):</b>
5.27	<b>Density (g/cm<sup>3</sup>):</b>

## Regulatory Compliance

<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<a href="#">Compliant</a>	<b>Reach 240:</b>

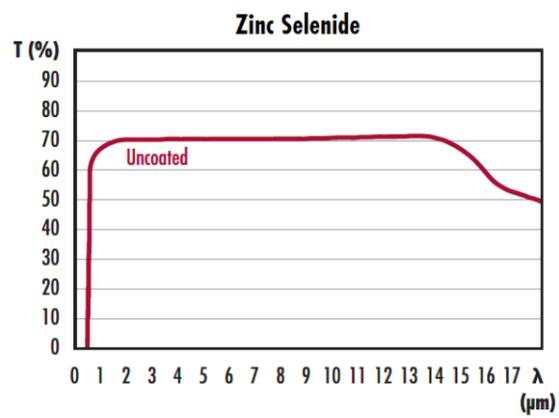
## Product Details

- 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 CO<sub>2</sub> 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

## Custom

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](#).