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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

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C\$812^{.00}

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General	
Type:	Protective Window
Model Number:	ZC-WW3-38-3
Physical & Mechanical Properties	

Protective as needed	Bevel:
85	Clear Aperture (%):
32.38	Clear Aperture CA (mm):
38.10 +0.00/-0.13	Diameter (mm):
3.00 ±0.13	Thickness (mm):
Fine Ground	Edges:
120.00	Knoop Hardness (kg/mm²):
0.28	Poisson's Ratio:
67.2	Young's Modulus (GPa):

Optical Properties

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

Material Properties

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

Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 240:

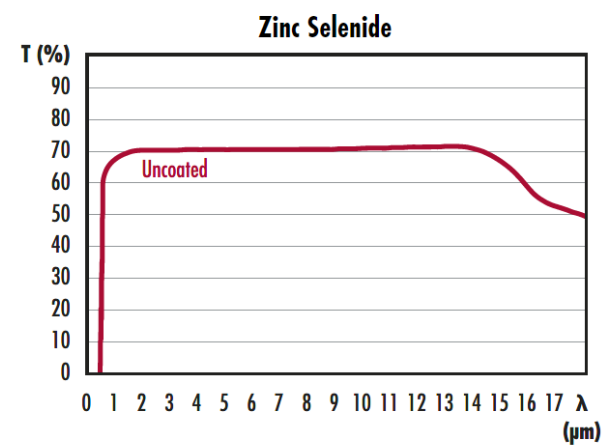
Product Details

- 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

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](#).