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# 63.5mm Dia., 6mm Thick, Uncoated, ISP Optics Zinc Selenide (ZnSe) Window | ZC-W-63-6

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Stock #24-664 **CLEARANCE** 1 In Stock

€775<sup>00</sup>

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## Product Downloads

### General

Model Number:  
ZC-W-63-6

Type:  
Protective Window

### Physical & Mechanical Properties

Clear Aperture CA (mm):

53.97

63.50 +0.00/-0.13

Diameter (mm):

6.00 ±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<sup>2</sup>):

## Optical Properties

Uncoated

Coating:

Zinc Selenide (ZnSe)

Substrate:

2.631

Index of Refraction (n<sub>d</sub>):

60-40

Surface Quality:

600 - 18000

Wavelength Range (nm):

λ/20 @ 10.6μm

Surface Flatness (P-V):

## Material Properties

5.27

Density (g/cm<sup>3</sup>):

7.57

Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):

## Regulatory Compliance

Compliant

RoHS 2015:

View

Certificate of Conformance:

Compliant

Reach 240:

## 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 CO<sub>2</sub> 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

