

TECHSPEC[®] 25mm Dia. x 3mm Thickness, 3-12µm Coated, ZnSe Window



Stock **#47-938** 6 In Stock

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1

+

€463^{.00}

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Volume Pricing	
Qty 1-10	€463,00 each
Qty 11-25	€410,00 each
Qty 26-49	€386,00 each
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 Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Protective Window

Physical & Mechanical Properties

Bevel:

Protective as needed

Clear Aperture (%):

90

22.50	Clear Aperture CA (mm):
25.00 +0.0/-0.1	Diameter (mm):
3.00 ±0.1	Thickness (mm):
Fine Ground	Edges:
120.00	Knoop Hardness (kg/mm²):
<1	Parallelism (arcmin):
0.28	Poisson's Ratio:

Optical Properties

BBAR (3000-12000nm)	Coating:
R _{avg} <5.0% @ 3 - 12µm	Coating Specification:
2.631	Index of Refraction (n _d):
Zinc Selenide (ZnSe)	Substrate:
λ/10 @ 10.6µm	Surface Flatness (P-V):
60-40	Surface Quality:
3000 - 12000	Wavelength Range (nm):

Material Properties

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

Regulatory Compliance

Compliant	RoHS 2015:
Compliant	Reach 224:
View	Certificate of Conformance:

Product Details

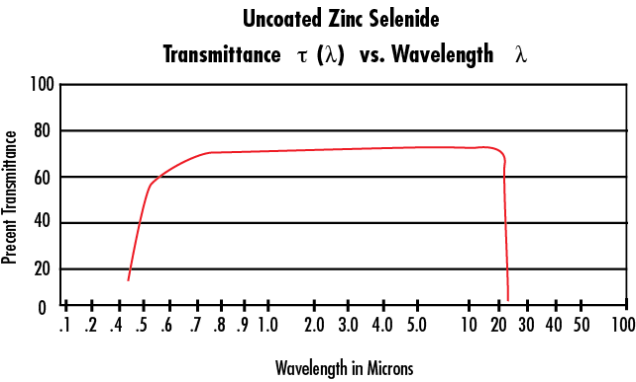
Special care should be taken when handling Zinc Selenide as it is a toxic material. Always wear rubber or plastic gloves to avoid risk of contamination.

- Low Dispersion
- Available Uncoated or AR Coated
- Ideal for Thermal Imaging, FLIR, and Medical Systems

TECHSPEC® Zinc Selenide (ZnSe) Windows are ideal for a wide variety of infrared applications, including thermal imaging, FLIR, and medical systems. This chemically vapor-deposited material has wide usage in CO2 laser systems because of its low absorption coefficient and high resistance to thermal shock. 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. When handling TECHSPEC Zinc Selenide (ZnSe) Windows, apply uniform pressure and wear Latex finger cots or gloves to prevent contamination. These windows are available uncoated or with broadband anti-reflection coating in diameters ranging from 5 to 127mm.

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



BBAR Coated ZnSe
Typical Visible Transmission



Typical visible transmission of a 3mm thick ZnSe window coated with BBAR (1650-3000nm), BBAR (3000-12000nm), and BBAR (8000-12000nm coating).

This data is outside the design wavelength range of the BBAR coatings and thus is not guaranteed, but provides a reference for visible guide laser usage.

[Click Here to Download Data](#)

ZnSe with 1.65-3 μ m AR Coating
Typical Transmission



Typical transmission of a 3mm thick ZnSe window with BBAR (1650-3000nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{avg} < 1\%$ @ 1650 - 3000nm
 $R_{abs} < 2\%$ @ 1650 - 3000nm

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

ZnSe with 3-12 μ m AR Coating
Typical Transmission



Typical transmission of a 3mm thick ZnSe window with BBAR (3000-12000nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{avg} < 5.0\%$ @ 3 - 12 μ m

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

ZnSe with 8-12 μ m AR Coating
Typical Transmission



Typical transmission of a 3mm thick ZnSe window with BBAR (8000-12000nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{avg} \leq 0.5\%$ @ 8 - 12 μ m

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

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](#).

Compatible Mounts
