

[All Products](#) / [Optics](#) / [Windows](#) / [Zinc Selenide \(ZnSe\) Windows](#)

[See all 107 Products in Family](#)

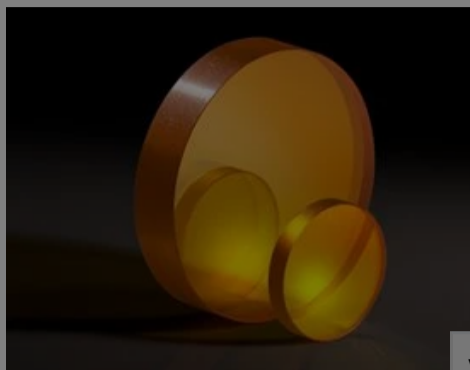
TECHSPEC®

20mm Dia. x 2mm Thick

Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

Select Your Country/Region: European Union

Submit



Stock #63-210 **14 In Stock**

1

€354^{,00}

ADD TO CART

Volume Pricing	
Qty 1-10	€354,00 each
Qty 11-25	€313,00 each
Qty 26-49	€295,00 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

- STEP:step
- Curve:pdf
- PDF Drawing:pdf
- IGES:igs
- eDrawing:eprt
- EO Spec Sheet
- [Download All](#)

General

Type: Protective Window

Type of Window: Crystal

Physical & Mechanical Properties

Clear Aperture CA (mm): 18.00

Diameter (mm): 20.00 +0.0/-0.1

Thickness (mm): 2.00 ±0.1

Parallelism (arcmin): <1

Dimensional Tolerance (mm): +0.0/-0.1

Bevel: Protective as needed

Clear Aperture (%): 90

Edges: Fine Ground

Poisson's Ratio: 0.28

Knoop Hardness (kg/mm²): 120.00

Optical Properties

Coating: BBAR (3000-12000nm)

Substrate: Zinc Selenide (ZnSe)

Index of Refraction (n_d): 2.631

Surface Quality: 60-40

Coating Specification: R_{avg} <5.0% @ 3 - 12µm

Wavelength Range (nm): 3000 - 12000

Surface Flatness (P-V): λ/10 @ 10.6µm

Material Properties

Density (g/cm³): 5.27

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

Regulatory Compliance

RoHS 2015: [Compliant](#)

Certificate of Conformance: [View](#)

Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

Select Your Country/Region:

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

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

Product Details

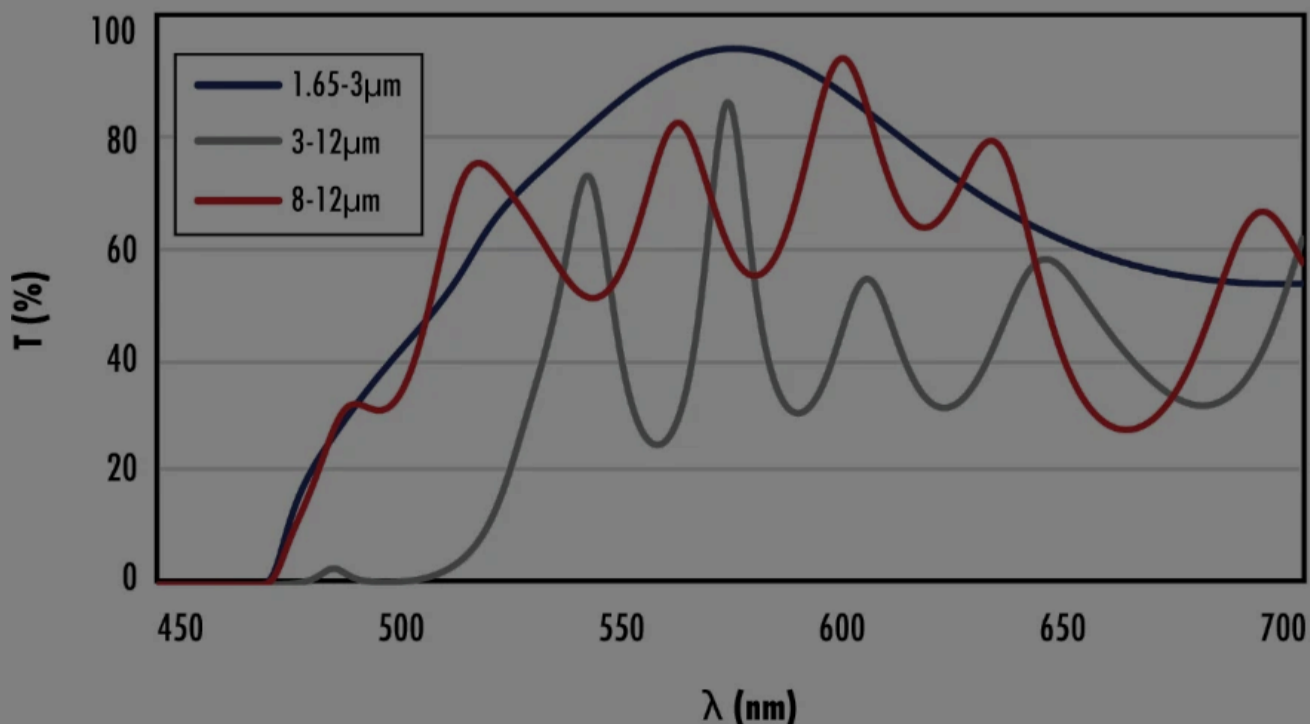
- Low Dispersion
- Available Uncoated or AR Coated
- Ideal for Thermal Imaging, FLIR, and Medical Systems

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

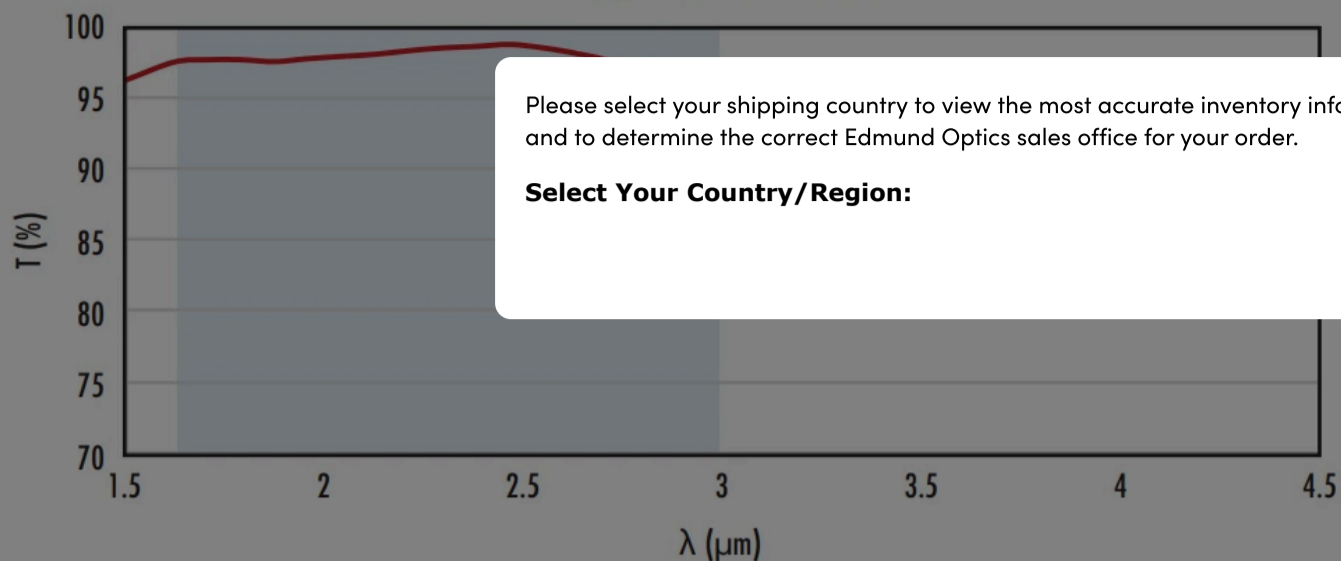


Typical visible transmission of a 3mm thick ZnSe window coated with BBAR (1650–3000nm), BBAR (3000–12000) and BBAR (8000–12000nm coating).

This data is outside the design wavelength range of BBAR coatings and thus is not guaranteed, but provides 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.

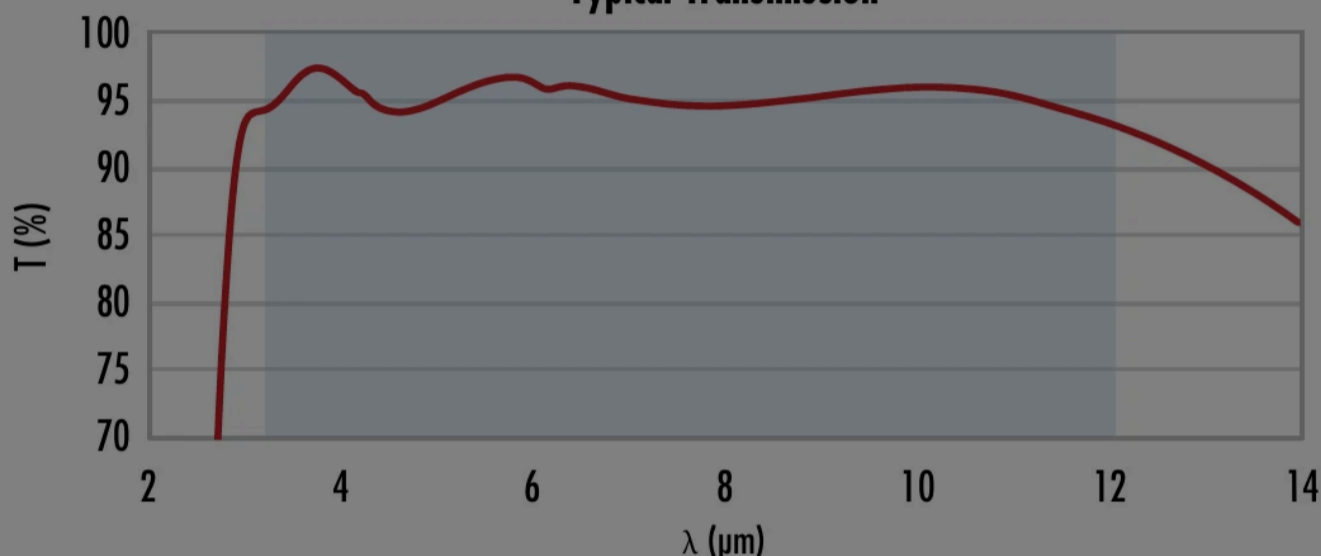
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{avg} < 1\%$ @ 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.

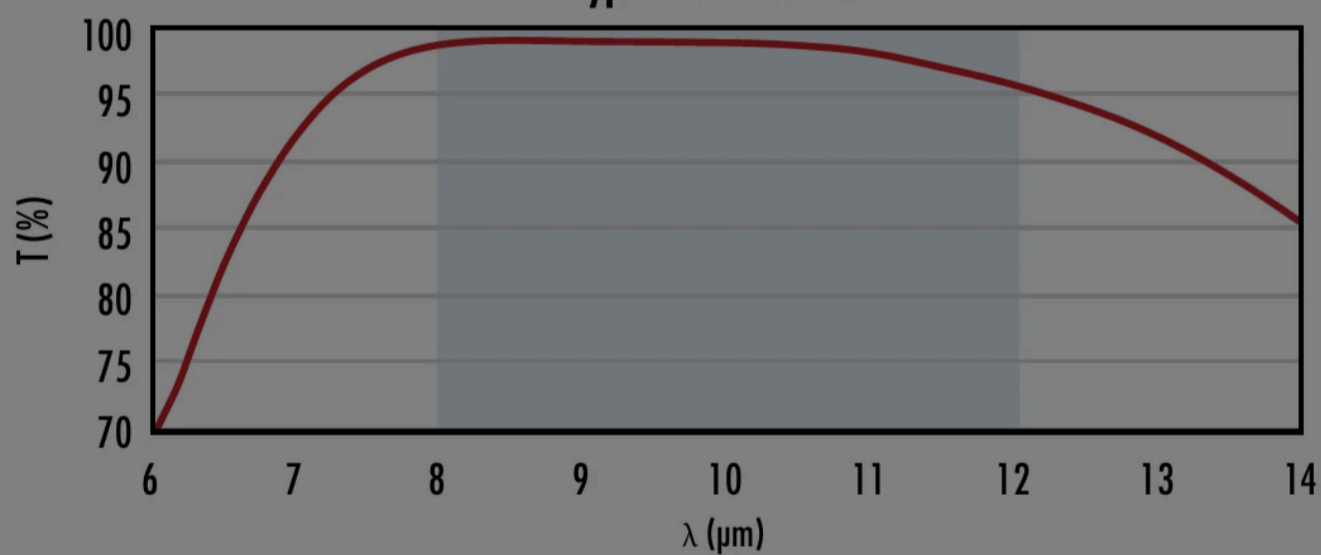
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{avg} < 5.0\%$ @ 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](#)

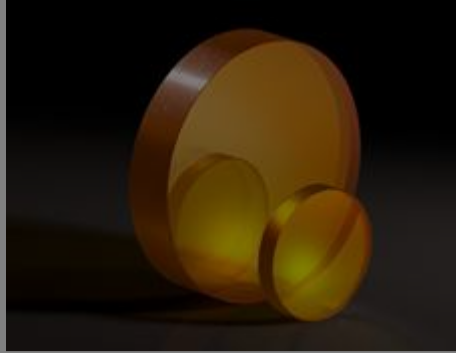
Special Handling

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

Frequently Purchased Together



#68-492 - 20mm Dia. x 2mm Thickness, Uncoated, ZnSe Window
€263,00

Qty



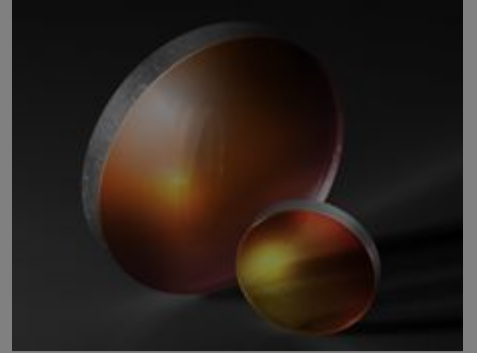
Bromide Window
€91,50

Qty



€70,50

Qty



#64-145 - 25mm Diameter 3-12µm AR, Zinc Sulfide (ZnS) Multispectral Window
€466,00

Qty

Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

Select Your Country/Region:

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	20.0mm Optic Dia., Optic Mount	Fixed		#64-559	€32,75 Request Quote	14 In Stock <input type="text" value="1"/>
	5.0 - 25.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-529	€102,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	7.0 - 40.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-676	€106,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	10.0 - 60.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-530	€108,00 Request Quote	CONTACT US <input type="text" value="1"/>
	7.0 - 67.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-669	€116,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	8.0 - 118.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-666	€120,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	4.0 - 36.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-077	€157,00 Request Quote	5 In Stock <input type="text" value="1"/>
	5.0 - 100.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-078	€410,00 Request Quote	CONTACT US <input type="text" value="1"/>

Check out our full selection of mounts [here](#).

Resources

Media Type

- Application Note
- Scientific Paper
- Video
- Glossary
- Technical Tool
- FAQ

APPLICATION NOTE

Anti-Reflection

APPLICATION NOTE

Ap

SCIENTIFIC PAPER

Advantages of using engineered chalcogenide...

Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

Select Your Country/Region:

VIDEO

Infrared Light

GLOSSARY

Short Wave Infrared (SWIR)

TECHNICAL TOOL

Beam Displacement Calculator

[View More](#)