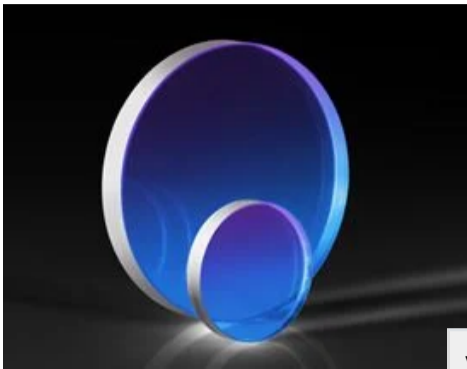


TECHSPEC®

50mm Dia., 3mm Thick, Uncoated, Magnesium Fluoride Window



Magnesium Fluoride (MgF₂) Windows

Stock #64-095 **4 In Stock**

1 **C\$1,120⁰⁰**

ADD TO CART

| Volume Pricing | |
|----------------|-------------------------------|
| Qty 1-10 | C\$1,120.00 each |
| Qty 11-25 | C\$987.00 each |
| Qty 26-49 | C\$931.00 each |
| Need More? | Request Quote |

| Product Downloads | |
|-------------------|------------------------------|
| STEP:step | 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): 45.00 | Diameter (mm): 50.00 +0.0/-0.1 |
| Thickness (mm): 3.00 ±0.1 | Parallelism (arcmin): <1 |
| Bevel: Protective as needed | Clear Aperture (%): 90 |
| Edges: Fine Ground | Poisson's Ratio: 0.27 |
| Young's Modulus (GPa): 138 | Knoop Hardness (kg/mm²): 415.00 |

Optical Properties

| | |
|---|---|
| Coating: Uncoated | Substrate: ^① Magnesium Fluoride (MgF ₂) |
| Index of Refraction (n_d): 1.377 | Surface Quality: 40-20 |
| Abbe Number (v_d): 106.22 | Wavelength Range (nm): 120 - 7000 |
| Surface Flatness (P-V): λ/2 | |

Material Properties

| | |
|---|--|
| Density (g/cm³): 3.18 | Coefficient of Thermal Expansion CTE (10⁻⁶/°C): 13.7 |
|---|--|

Regulatory Compliance

RoHS 2015: **Compliant**

Reach 219: **Compliant**

Certificate of Conformance: **View**

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

- Excellent Transmission from 120nm to 7 μ m
- Rugged and Durable
- Resistant to Chemical Etching

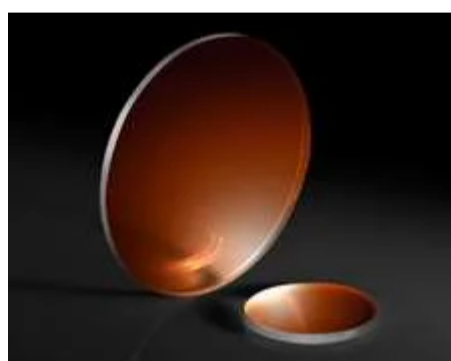
TECHSPEC® Magnesium Fluoride (MgF₂) Windows offer excellent broadband transmission from the deep-UV to the mid-infrared. DUV transmission makes them ideal for use at the Hydrogen Lyman-alpha line and for UV radiation sources and receivers, as well as excimer laser applications. MgF₂ is a rugged material resistant to chemical etching, laser damage, and mechanical and thermal shock. TECHSPEC® Magnesium Fluoride (MgF₂) Windows have a Knoop Hardness of 415 and index of refraction of 1.38. The windows are offered in diameters ranging from 5 to 75mm.

Technical Information

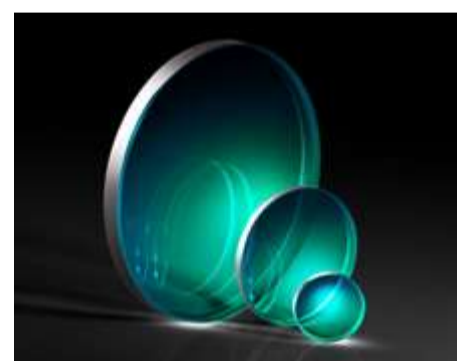
Related Products



Magnesium Fluoride Optics



Lithium Fluoride (LiF) Windows



$\lambda/4$ UV Fused Silica Windows

Frequently Purchased Together



#34-601 - 50mm Dia., 3mm Thick, Uncoated $\lambda/10$ Fused Silica Window
C\$392.00



#34-602 - 50mm Dia., 6mm Thick, Uncoated $\lambda/10$ Fused Silica Window
C\$392.00



#43-347 - 2" Dia, 40" FL Uncoated, Spherical Mirror
C\$191.80

Qty



#45-572 - 50mm Diameter MgF₂ Coated, B270 Window
C\$113.40

Qty












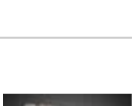



Qty












Qty



Compatible Mounts

| | Title | Type | Compare | Stock Number | Price | Buy |
|---|---|--------------------------|---------|----------------------|--|---|
| MORE+  | 50.0mm Optic Dia., Optic Mount | Fixed | | #64-567 | C\$68.95 Request Quote | 1 In Stock <input type="text" value="1"/> |
| MORE+  | 50.0mm Optic Dia., Optic Mount | Fixed | | #64-568 | C\$68.95 Request Quote | 7 In Stock <input type="text" value="1"/> |
| MORE+  | 9.5 - 73.0mm Optic Dia., Three-Screw Adjustable Ring Mount | Fixed | | #36-605 | C\$116.20 Request Quote | 20+ In Stock <input type="text" value="1"/> |
| MORE+  | 50.0/50.8mm Optic Dia., E-Series Kinematic Mount | Adjustable - Tip-Tilt | | #15-867 | C\$134.40 Request Quote | CONTACT US <input type="text" value="1"/> |
| MORE+  | 10.0 - 60.0mm Optic Height, Metric Bar-Type Optic Holder | Fixed | | #55-530 | C\$151.20 Request Quote | CONTACT US <input type="text" value="1"/> |
| MORE+  | 19.5 - 108.0mm Optic Dia., Three-Screw Adjustable Ring Mount | Fixed | | #03-670 | C\$159.60 Request Quote | 20+ In Stock <input type="text" value="1"/> |
| MORE+  | 7.0 - 67.0 Optic Height, English Bar-Type Optic Holder | Fixed | | #03-669 | C\$162.40 Request Quote | 20+ In Stock <input type="text" value="1"/> |
| MORE+  | 8.0 - 118.0 Optic Height, English Bar-Type Optic Holder | Fixed | | #03-666 | C\$168.00 Request Quote | 20+ In Stock <input type="text" value="1"/> |
| MORE+  | 50.0/50.8mm Optic Dia., Optical Cell Assembly | Fixed | | #36-465 CLEARANCE | C\$179.93 Request Quote | 2 In Stock <input type="text" value="1"/> |
| MORE+  | 50.0/50.8mm Optic Dia., Kinematic Mount, 2-Screws | Adjustable - Tip-Tilt | | #58-852 | C\$189.00 Request Quote | 20+ In Stock <input type="text" value="1"/> |
| MORE+  | 50.0/50.8mm Optic Dia., Kinematic Mount, 3-Screws | Adjustable - Tip-Tilt | | #58-855 | C\$219.80 Request Quote | 20+ In Stock <input type="text" value="1"/> |
| MORE+  | 50.0/50.8mm Optic Dia., Stainless Steel Kinematic Mount, 2-Screws | Adjustable - Tip-Tilt | | #26-816 | C\$344.40 Request Quote | 12 In Stock <input type="text" value="1"/> |
| MORE+  | 50.0/50.8mm Optic Dia., Stainless Steel Kinematic Mount, 3-Screws | Adjustable - Tip-Tilt | | #26-819 | C\$375.20 Request Quote | CONTACT US <input type="text" value="1"/> |
| MORE+  | 50.0/50.8mm Optic Dia., X-Y Translating Optic Mount | Adjustable - Linear (XY) | | #62-957 | C\$431.20 Request Quote | 1 In Stock <input type="text" value="1"/> |
| MORE+  | 5.0 - 100.0mm Optic Dia., Self-Centering Jaw Clamp | Fixed | | #16-078 | C\$574.00 Request Quote | CONTACT US <input type="text" value="1"/> |

| | Title | Type | Compare | Stock Number | Price | Buy |
|---|---|--------------------------------------|---------|--------------|------------------------------|---|
|   | 50.0/50.8mm Optic Dia., Precision Gimbal Mount | Adjustable - Gimbal | | #55-000 | C\$714.00 Request Quote | 7 In Stock <input type="text" value="1"/>  |
|   | 50.0/50.8mm Optic Dia., X-Y-Z Translating Optic Mount | Adjustable - Linear (XYZ) | | #62-960 | C\$847.00 Request Quote | 20+ In Stock <input type="text" value="1"/>  |
|   | 50.0/50.8mm Optic Dia., 5 Axes Optical Mount | Adjustable - Linear (XYZ) & Tip-Tilt | | #13-778 | C\$1,176.00 Request Quote | 10 In Stock <input type="text" value="1"/>  |

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

Resources

Media Type

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

 APPLICATION NOTE

Anti-Reflection (AR) Coatings

 APPLICATION NOTE

An Introduction to Optical Coatings

 TECHNICAL TOOL

Beam Displacement Calculator

 APPLICATION NOTE

Understanding Optical Windows

 VIDEO

Optical Windows Review

 APPLICATION NOTE

Optical Glass

[View More](#)