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



Magnesium Fluoride (MgF₂) Windows

Stock #64-095 **5 In Stock**

⊖ 1 ⊕ £640⁰⁰

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Volume Pricing

Qty 1-10	£640.00 each
Qty 11-25	£564.00 each
Qty 26-49	£532.00 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Protective Window **Type:**

Physical & Mechanical Properties

45.00 **Clear Aperture CA (mm):**

Diameter (mm):

50.00 +0.0/-0.1

3.00 ±0.1 **Thickness (mm):**

<1 **Parallelism (arcmin):**

Protective as needed **Bevel:**

90 **Clear Aperture (%):**

Fine Ground **Edges:**

0.27 **Poisson's Ratio:**

138 **Young's Modulus (GPa):**

415.00 **Knoop Hardness (kg/mm²):**

Optical Properties

Uncoated **Coating:**

Magnesium Fluoride (MgF₂) **Substrate:**

1.377 **Index of Refraction (n_d):**

40-20 **Surface Quality:**

106.22 **Abbe Number (v_d):**

120 - 7000 **Wavelength Range (nm):**

λ/2 **Surface Flatness (P-V):**

Material Properties

3.18 **Density (g/cm³):**

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

Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[Compliant](#) **Reach 219:**

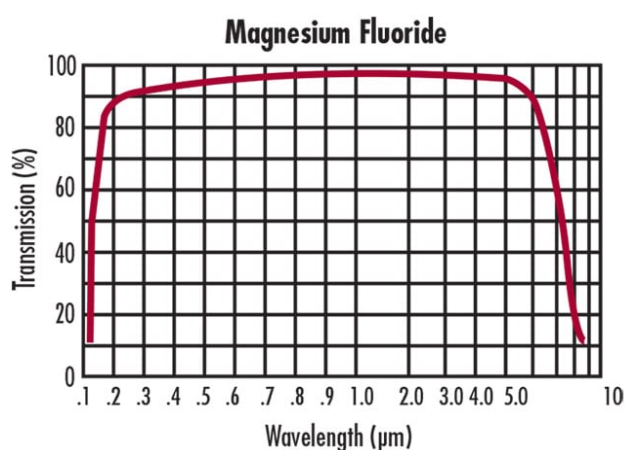
[View](#) **Certificate of Conformance:**

Product Details

- Excellent Transmission from 120nm to 7µm
- 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



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
