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TECHSPEC® 50.8mm Dia., 3mm Thick, Uncoated, Magnesium Fluoride Window



Magnesium Fluoride (MgF₂) Windows

Stock **#17-283** **7 In Stock**

⊖ 1 ⊕ €800⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-10	€800,00 each
Qty 11-25	€705,00 each
Qty 26-49	€665,00 each
Need More?	Request Quote

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Protective Window **Type:**

Crystal **Type of Window:**

Physical & Mechanical Properties

Clear Aperture CA (mm):

45.72

Diameter (mm):

50.80 +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:

Magnesium Fluoride (MgF₂)

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

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](#).

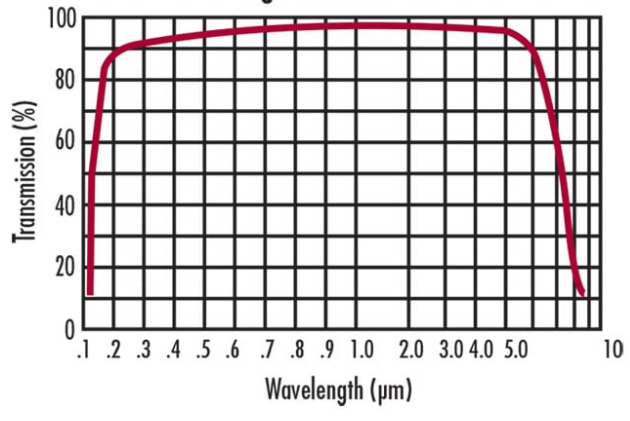
Product Details

- Excellent Transmission from 120nm to 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

Magnesium Fluoride



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