

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



Magnesium Fluoride (MgF₂) Windows

Stock **#17-283** **8 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

i Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Protective Window

Physical & Mechanical Properties

Clear Aperture CA (mm):

45.72

Diameter (mm):

50.80 +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 (MgF ₂)	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):

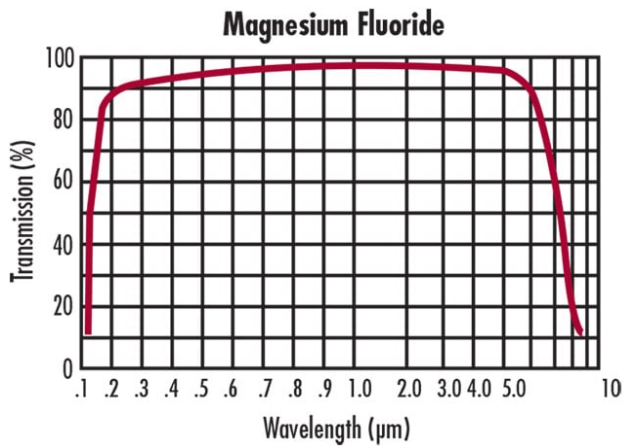
Regulatory Compliance	
View	Certificate of Conformance:

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](#).