

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



Magnesium Fluoride (MgF<sub>2</sub>) Windows

Stock **#17-283** [CONTACT US](#)

⊖ 1 ⊕ £643<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-10	£643.49 each
Qty 11-25	£566.45 each
Qty 26-49	£534.93 each
Need More?	<a href="#">Request Quote</a>

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

## SPECIFICATIONS

### General

Protective Window **Type:**

## Physical & Mechanical Properties

Protective as needed **Bevel:**

90 **Clear Aperture (%):**

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

50.80 +0.0/-0.1 **Diameter (mm):**

3.00 ±0.1 **Thickness (mm):**

Fine Ground **Edges:**

415.00 **Knoop Hardness (kg/mm<sup>2</sup>):**

<1 **Parallelism (arcmin):**

0.27 **Poisson's Ratio:**

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

## Optical Properties

106.22 **Abbe Number (v<sub>d</sub>):**

Uncoated **Coating:**

1.377 **Index of Refraction (n<sub>d</sub>):**

Magnesium Fluoride (MgF<sub>2</sub>) **Substrate:**

λ/2 **Surface Flatness (P-V):**

40-20 **Surface Quality:**

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

## Material Properties

13.7 **Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):**

3.18 **Density (g/cm<sup>3</sup>):**

## Regulatory Compliance

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

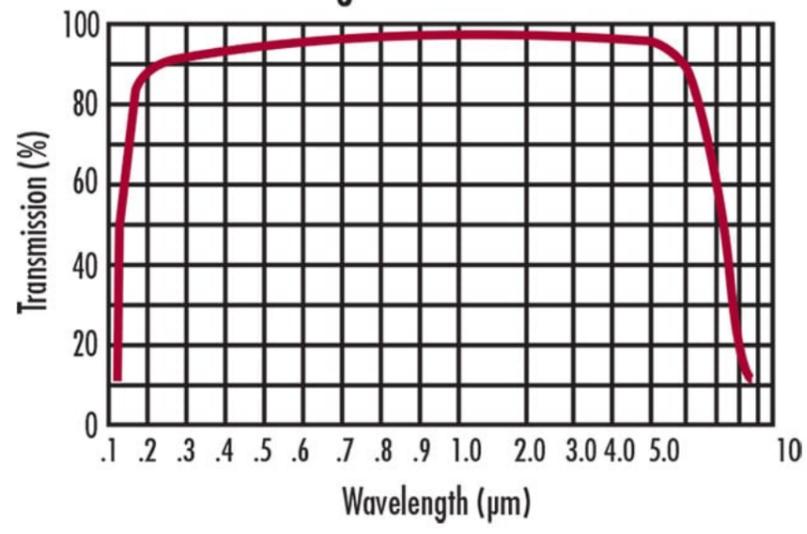
## PRODUCT DETAILS

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

TECHSPEC® Magnesium Fluoride (MgF<sub>2</sub>) 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. MgF<sub>2</sub> is a rugged material resistant to chemical etching, laser damage, and mechanical and thermal shock. TECHSPEC® Magnesium Fluoride (MgF<sub>2</sub>) 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



## 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](#).

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