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TECHSPEC® 40mm Dia., 3mm Thick, Uncoated Magnesium Fluoride Window



Magnesium Fluoride (MgF₂) Windows

Stock **#19-922** **4 In Stock**

MRP ₹61,039

Price inclusive of all taxes

ADD TO CART

Volume Pricing	
Qty 1-10	₹61,039 each
Qty 11-25	₹53,977 each
Qty 26-49	₹50,950 each
Need More?	Request Quote

Product Downloads

General

Protective Window **Type:**

Crystal **Type of Window:**

Physical & Mechanical Properties

Clear Aperture CA (mm):

36.00	Diameter (mm):
40.00 +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: <input type="checkbox"/>
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

	Certificate of Conformance:
View	
	Country of Origin:
United States	
	Imported By:
Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91- 80-6845 0000	

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

