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# 50.8mm Dia., 3mm Thick, Uncoated, ISP Optics Magnesium Fluoride ($MgF_2$) Window | MF-W-50-3

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Stock **#24-486** CLEARANCE **4 In Stock**

- 1 +  **MRP ₹45,874**

Price inclusive of all taxes

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## General

| | |
|---|---|
| **Model Number:** | MF-W-50-3 |
| **Type:** | Protective Window |
| **Type of Window:** | Crystal |

## Physical & Mechanical Properties

**Clear Aperture CA (mm):**
43.18

**Diameter (mm):**
50.80 +0.00/-0.13

**Thickness (mm):**
3.00 ±0.13

**Parallelism (arcmin):**
<3

**Bevel:**
Protective as needed

**Clear Aperture (%):**
85

**Edges:**
Fine Ground

**Poisson's Ratio:**
0.27

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

**Knoop Hardness (kg/mm$^2$):**
415.00

## Optical Properties

**Coating:**
Uncoated

**Substrate:**
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):**
2λ

## Material Properties

**Density (g/cm$^3$):**
3.18

**Coefficient of Thermal Expansion CTE (10$^{-6}$/°C):**
13.7

## Regulatory Compliance

**RoHS 2015:**
Compliant

**Certificate of Conformance:**
View

**Reach 240:**
Compliant

**Country of Origin:**
Latvia

**Imported By:**
Edmund Optics India Private Limited
267, Greystone Building, Second Floor,
6th Cross Rd, Binnamangala,
Stage 1, Indiranagar, Bengaluru,
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# Product Details

- Excellent Transmission from 0.12 to 7µm
- Rugged and Durable
- Resistant to Chemical Etching

ISP Optics Magnesium Fluoride ($MgF_2$) Windows feature a low refractive index and high transmission from the Deep UV (DUV) to the Mid-Wave Infrared (MWIR), without the need for an Anti-Reflection (AR) coating. Magnesium Fluoride is extremely durable, being resistant to mechanical and thermal shock. Featuring strong resistance to chemical etching and stability in water, these windows are able to be used in harsh external environments. ISP Optics Magnesium Fluoride ($MgF_2$) Windows are ideal for a wide range of applications from use in the DUV for Hydrogen Lyman-alpha line applications and excimer laser applications, to applications requiring transparency across multiple wavelengths such as spectroscopy and fluorescence imaging.

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