

[All Products](#) / [Optics](#) / [Windows and Diffusers](#) / [UV and IR Windows](#)

## ISP Optics Magnesium Fluoride (MgF<sub>2</sub>) Windows [See More by ISP](#)

[Optics](#)




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


# Common Specifications

Physical & Mechanical Properties			
Bevel:	Protective as needed	Clear Aperture (%):	85
Clear Aperture CA (mm):	43.18	Diameter (mm):	50.80 +0.00/-0.13
Edges:	Fine Ground	Knoop Hardness (kg/mm <sup>2</sup> ):	415.00
Parallelism (arcmin):	<3	Poisson's Ratio:	0.27
Young's Modulus (GPa):	138		
Optical Properties			
Abbe Number (v <sub>d</sub> ):	106.22		
Coating:	Uncoated	Index of Refraction (n <sub>d</sub> ):	1.377
Substrate:	Magnesium Fluoride (MgF <sub>2</sub> )	Surface Flatness (P-V):	2λ
Surface Quality:	40-20	Wavelength Range (nm):	120 - 7000
Material Properties			
Coefficient of Thermal Expansion CTE (10 <sup>-6</sup> /°C):	13.7	Density (g/cm <sup>3</sup> ):	3.18

## Technical Information

Products

Dia. (mm)	Thickness (mm)	Coating	Model Number	Stock Number	Price	Buy
<a href="#">#24-486 Clearance</a>						
						
Clearance						
Availability is limited, so buy before these products disappear. Sorry, we cannot accept returns. Receive up to 80% off select products.						
50.80	3.00	Uncoated	MF-W-50-3		A\$691.12	5 In Stock

<a href="#">#24-487 Clearance</a>						
						
Clearance						
Availability is limited, so buy before these products disappear. Sorry, we cannot accept returns. Receive up to 80% off select products.						
50.80	4.00	Uncoated	MF-W-50-4		A\$702.32	3 In Stock

[#24-488 Clearance](#)



Clearance

Availability  
is limited,  
so buy  
before  
these  
products  
disappear.  
Sorry, we  
cannot  
accept  
returns.  
Receive up  
to 80% off  
select  
products.

50.80

5.00

Uncoated

MF-W-  
50-5

A\$713.52

1 In Stock

---

[#24-489 Clearance](#)



Clearance

Availability  
is limited,  
so buy  
before  
these  
products  
disappear.  
Sorry, we  
cannot  
accept  
returns.  
Receive up  
to 80% off  
select  
products.

50.80

6.00

Uncoated

MF-W-  
50-6

A\$1,032.00

3 In Stock

---



Copyright 2024, Edmund Optics Singapore Pte. Ltd, 18 Woodlands Loop #04-00, Singapore 738100

[PRIVACY POLICY](#) [COOKIE POLICY](#) [TERMS & CONDITIONS](#)

Phone: 1-800-363-1992 :

[www.edmundoptics.com](http://www.edmundoptics.com)