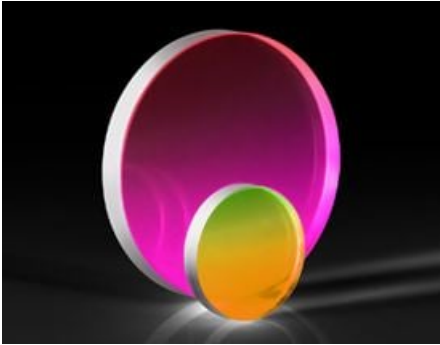


[All Products](#) / [Optics](#) / [Windows and Diffusers](#) / [UV and IR Windows](#)

## 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.<br>(mm)                                                                                                                             | Thickness<br>(mm) | Coating  | Model<br>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       |              | S\$626.33 | 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 |  | S\$636.48 | 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

S\$646.63

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

S\$935.25

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)