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## **TECHSPEC®** Magnesium Fluoride (MgF<sub>2</sub>) Windows

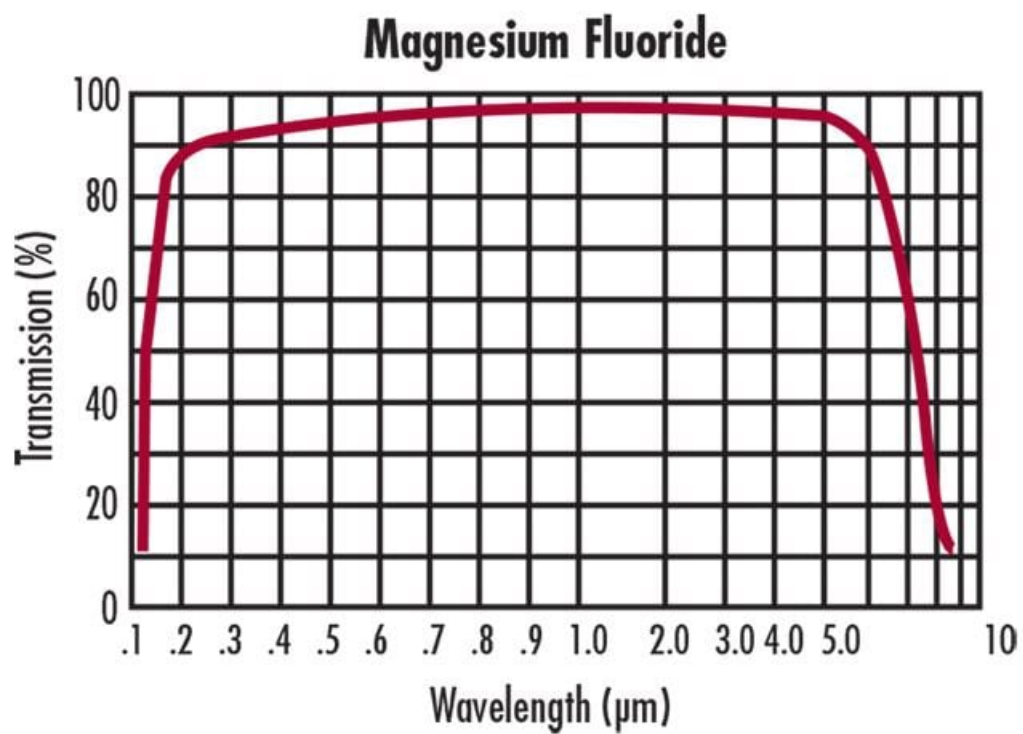


- Excellent Transmission from 120nm to 7μm
- Rugged and Durable
- Resistant to Chemical Etching

# Common Specifications

|                                                              |                                        |                                        |        |
|--------------------------------------------------------------|----------------------------------------|----------------------------------------|--------|
| Physical & Mechanical Properties                             |                                        |                                        |        |
| Bevel:                                                       | Protective as needed                   | Clear Aperture (%):                    | 90     |
| Edges:                                                       | Fine Ground                            | Knoop Hardness (kg/mm <sup>2</sup> ):  | 415.00 |
| Parallelism (arcmin):                                        | <1                                     | 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 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  | Stock Number            | Price                                         | Buy          |
|-----------|----------------|----------|-------------------------|-----------------------------------------------|--------------|
| 5.00      | 1.00           | Uncoated | <a href="#">#64-092</a> | A\$207.65<br><a href="#">Volume Pricing</a>   | 2 In Stock   |
| 10.00     | 1.50           | Uncoated | <a href="#">#87-703</a> | A\$260.38<br><a href="#">Volume Pricing</a>   | 5 In Stock   |
| 12.50     | 2.00           | Uncoated | <a href="#">#64-093</a> | A\$351.02<br><a href="#">Volume Pricing</a>   | Contact Us   |
| 12.70     | 2.00           | Uncoated | <a href="#">#17-281</a> | A\$351.02<br><a href="#">Volume Pricing</a>   | 9 In Stock   |
| 20.00     | 2.00           | Uncoated | <a href="#">#87-704</a> | A\$472.98<br><a href="#">Volume Pricing</a>   | 5 In Stock   |
| 25.00     | 3.00           | Uncoated | <a href="#">#64-094</a> | A\$524.06<br><a href="#">Volume Pricing</a>   | 20+ In Stock |
| 25.40     | 3.00           | Uncoated | <a href="#">#17-282</a> | A\$524.06<br><a href="#">Volume Pricing</a>   | 5 In Stock   |
| 30.00     | 3.00           | Uncoated | <a href="#">#19-921</a> | A\$641.07<br><a href="#">Volume Pricing</a>   | 14 In Stock  |
| 40.00     | 3.00           | Uncoated | <a href="#">#19-922</a> | A\$914.64<br><a href="#">Volume Pricing</a>   | 5 In Stock   |
| 50.00     | 3.00           | Uncoated | <a href="#">#64-095</a> | A\$1,211.28<br><a href="#">Volume Pricing</a> | 6 In Stock   |
| 50.80     | 3.00           | Uncoated | <a href="#">#17-283</a> | A\$1,211.28<br><a href="#">Volume Pricing</a> | Contact Us   |
| 75.00     | 5.00           | Uncoated | <a href="#">#19-924</a> | A\$3,378.40<br><a href="#">Volume Pricing</a> | 4 In Stock   |



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Phone: 1-800-363-1992 :

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