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TECHSPEC® 40mm Dia., 1mm Thick, MgF₂ Coated, B270 Window

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Stock #17-177 **2 In Stock**

MRP ₹7,062

Price inclusive of all taxes

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Volume Pricing	
Qty 1-5	₹7,062 each
Qty 6-25	₹5,650 each
Qty 26-99	₹5,348 each
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Product Downloads

General

Protective Window **Type:**

Glass **Type of Window:**

Physical & Mechanical Properties

Clear Aperture CA (mm):

36.00

40.00 +0.00/-0.25

Diameter (mm):

Thickness (mm):

1.00 ±0.10

Bevel:

Protective as needed

Edges:

Fine Ground

Poisson's Ratio:

0.22

Young's Modulus (GPa):

71.5

Knoop Hardness (kg/mm²):

500.00

Optical Properties

Coating:

MgF₂ (632.8nm)

Substrate:

[B270](#)

Index of Refraction (n_d):

1.523

Surface Quality:

60-40

Abbe Number (v_d):

58.3

Coating Specification:

R_{avg} ≤1.50% @ 632.8nm (N-BK7)

Wavelength Range (nm):

400 - 700

Surface Flatness (P-V):

1λ (per 25.4mm Dia. within CA)

Damage Threshold, By Design:

10 J/cm² @ 532nm, 10ns

Material Properties

Density (g/cm³):

2.56

Coefficient of Thermal Expansion CTE (10⁻⁶/°C):

9.4 (+20 to +300°C)

Regulatory Compliance

RoHS 2015:

[Compliant](#)

Certificate of Conformance:

[View](#)

Reach 235:

[Compliant](#)

Country of Origin:

United States

Imported By:

Edmund Optics India Private Limited
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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

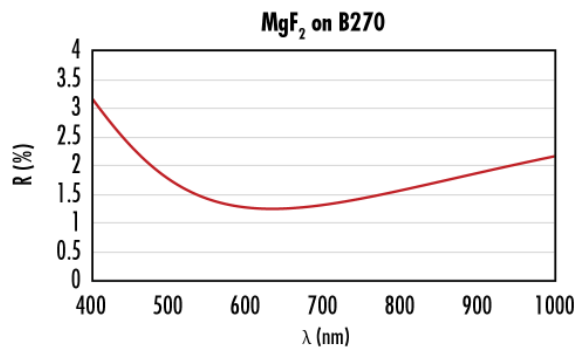
Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

Product Details

- Large Selection of Sizes
- Available Uncoated, MgF₂, or VIS-NIR Anti-Reflection (AR) Coated
- Custom Sizes Available for Volume OEM Requirements

TECHSPEC® B270 Windows offer a high transmission from the visible to the near-infrared (NIR). They have a similar refractive index to N-BK7 while being more cost-effective. These windows are often used as a protective element due to their high solarization stability and chemical resistance, making them ideal for standard window applications. TECHSPEC® B270 Windows are available either uncoated or coated with a MgF₂ or MS-NIR Anti-Reflection (AR) Coating. Both circular and square options are offered in various sizes, and custom sizes and coatings are available for OEM applications.

Technical Information



Compatible Mounts

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