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# TECHSPEC® 75mm Diameter, $MgF_2$ Coated, B270 Window

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Product Downloads

## General

**Type:**
Protective Window

## Physical & Mechanical Properties

**Bevel:**
Protective as needed

**Clear Aperture CA (mm):**

70.00

**Diameter (mm):**
75.00 ±0.25

**Thickness (mm):**
3.00

**Edges:**
Fine Ground

**Knoop Hardness (kg/mm$^2$):**
500.00

**Poisson's Ratio:**
0.22

**Young's Modulus (GPa):**
71.5

## Optical Properties

**Abbe Number ($v_d$):**
58.3

**Coating:**
$MgF_2$ (632.8nm)

**Coating Specification:**
$R_{avg}$ ≤1.50% @ 632.8nm (N-BK7)

**Index of Refraction ($n_d$):**
1.523

**Substrate:**
B270

**Surface Flatness (P-V):**
1λ

**Surface Quality:**
60-40

**Wavelength Range (nm):**
400 - 700

**Damage Threshold, By Design:**
10 J/cm$^2$ @ 532nm, 10ns

## Material Properties

**Coefficient of Thermal Expansion CTE ($10^{-6}$/°C):**
9.4 (+20 to +300°C)

**Density (g/cm$^3$):**
2.56

## Regulatory Compliance

**RoHS 2015:**
Compliant

**Certificate of Conformance:**
View

**Reach 247:**
Compliant

# 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 VIS-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

## Custom

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.**

## Compatible Mounts