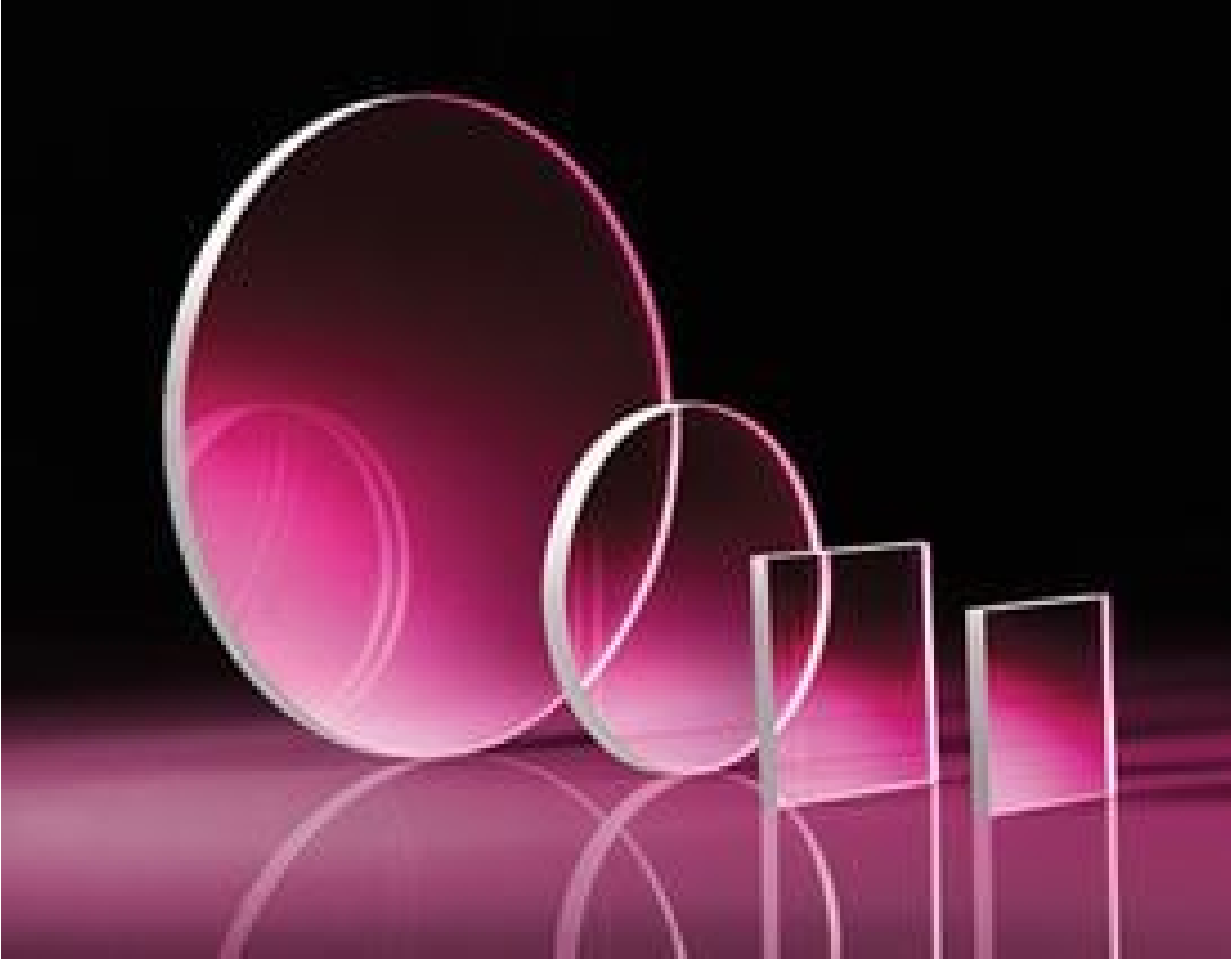


TECHSPEC®

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

See More by [SCHOTT Optical Components](#)



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

-

1

+

£56^{.00}

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Volume Pricing	
Qty 1-5	£56.00 each
Qty 6-25	£44.80 each
Qty 26-99	£42.40 each
Need More?	Request Quote

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 Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Protective Window

Physical & Mechanical Properties

Bevel:

Protective as needed

Clear Aperture CA (mm):

36.00	
	Diameter (mm):
40.00 +0.00/-0.25	
	Thickness (mm):
1.00 ±0.10	
	Edges:
Fine Ground	
	Knoop Hardness (kg/mm²):
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 (per 25.4mm Dia. within CA)	
	Surface Quality:
60-40	
	Wavelength Range (nm):
400 - 700	
	Damage Threshold, By Design: □
10 J/cm² @ 532nm, 10ns	

Material Properties	
	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):
9.4 (+20 to +300°C)	
	Density (g/cm³):
2.56	

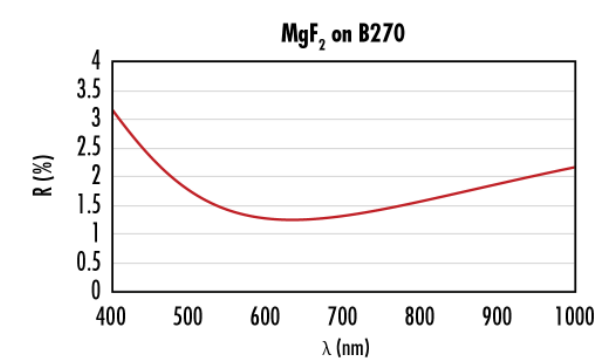
Regulatory Compliance	
	RoHS 2015:
Compliant	
	Certificate of Conformance:
View	
	Reach 235:
Compliant	

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
