

TECHSPEC®

30mm Dia., 1mm Thick, BBAR (1650-3000nm) AR Coated Sapphire Window


 Stock #15-997 **13 In Stock**

- 1 +

MRP ₹21,088

ⓘ Price inclusive of all taxes

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Volume Pricing	
Qty 1-24	₹21,088 each
Qty 25-50	₹16,103 each
Qty 51-99	₹15,816 each
Need More?	Request Quote

Product Downloads	
STEP:step	Curve:pdf
PDF Drawing:pdf	IGES:igs
eDrawing:eprt	
EO Spec Sheet	Download All

General

Type: Protective Window	Type of Window: Crystal
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Physical & Mechanical Properties

Clear Aperture CA (mm): 27.00	Diameter (mm): 30.00 ±0.25
Thickness (mm): 1.00 ±0.10	Parallelism (arcmin): ≤3.5
Bevel: Protective as needed	Clear Aperture (%): ≥90
Edges: Fine Ground	Poisson's Ratio: 0.27
Young's Modulus (GPa): 435	Knoop Hardness (kg/mm²): 1,900.00

Optical Properties

Coating: BBAR (1650-3000nm)	Substrate: Sapphire (Al ₂ O ₃)
Index of Refraction (n_d): 1.77	Surface Quality: 80-50
Abbe Number (v_d): 72.24	Surface Roughness (µm): 0.1 per Inch
Birefringence (n_o-n_e): 0.008 for Visible Light Orthogonal to Optical Axis	Axis Orientation: Random

Coating Specification:	R _{avg} <1% @ 1650 - 3000nm R _{abs} <2% @ 1650 - 3000nm	Wavelength Range (nm):	1650 - 3000
Surface Flatness (P-V):	2λ (typical)		

Material Properties

Density (g/cm³):	3.97	Coefficient of Thermal Expansion CTE (10⁻⁶/°C):	5.4 (Parallel to C-Axis) 4.3 (Perpendicular to C-Axis)
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Regulatory Compliance

RoHS 2015:	Compliant	Certificate of Conformance:	View
Reach 235:	Compliant		
Country of Origin:	Switzerland	Imported By:	Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91-80-6845 0000

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

- Features Extreme Surface Hardness Chemical Resistance
- Transmits Wavelengths Ranging From UV to Mid-Infrared
- Thinner and Stronger than Standard Glass Windows
- Anti-Reflection Coating Options Covering 350 - 5000nm Available

TECHSPEC® Sapphire Windows are manufactured from single crystal sapphire, making them ideal for demanding applications (such as laser systems) because of their extreme surface hardness, high thermal conductivity, high dielectric constant and resistance to common chemical acids and alkalis. Sapphire is the second hardest crystal next to **diamond** and, because of their structural strength, sapphire windows can be made much thinner than other common windows with improved transmittance. Chemically, sapphire is single crystal aluminum oxide (Al₂O₃) and is useful in a transmission range from UV to mid-infrared or 330 - 5500nm when uncoated. TECHSPEC® Sapphire Windows are available with anti-reflection (AR) coatings to improve performance in the visible, NIR, and IR spectra with coating options covering 350 - 5000nm.

Technical Information

Related Products



Cage System Optical Lens Mounts



















C, S, and T-Mount Circular Optic Mounts



PUROSOL™ Optical Cleaner

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
MORE+ 	30.0mm Optic Dia., Optic Mount	Fixed		#64-563	₹3,305 Request Quote	11 In Stock <input type="text" value="1"/> 
MORE+ 	30.0mm Optic Dia., Optic Mount	Fixed		#64-564	₹3,305 Request Quote	CONTACT US <input type="text" value="1"/> 
MORE+ 	7.0 - 40.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-676	₹10,694 Request Quote	2 In Stock <input type="text" value="1"/> 
MORE+ 	10.0 - 60.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-530	₹10,896 Request Quote	CONTACT US <input type="text" value="1"/> 
MORE+ 	7.0 - 67.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-669	₹11,703 Request Quote	6 In Stock <input type="text" value="1"/> 
MORE+ 	8.0 - 118.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-666	₹12,107 Request Quote	10 In Stock <input type="text" value="1"/> 
MORE+ 	4.0 - 36.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-077	₹15,840 Request Quote	6 In Stock <input type="text" value="1"/> 
MORE+ 	5.0 - 100.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-078	₹41,365 Request Quote	CONTACT US <input type="text" value="1"/> 

Check out our full selection of mounts [here](#).

Resources

Media Type

- Application Note
- Technical Tool
- Video
- Glossary
- FAQ

APPLICATION NOTE
Anti-Reflection (AR) Coatings

APPLICATION NOTE
An Introduction to Optical Coatings

TECHNICAL TOOL
Beam Displacement Calculator

APPLICATION NOTE
Understanding Optical Windows

VIDEO
Optical Windows Review

APPLICATION NOTE
Optical Glass

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