

50.8mm Dia., 3.18mm Thick, 2000-5000nm, High Durability AR Coated Sapphire Window



High Durability Anti-Reflection (AR) Coated Sapphire Windows

Stock **#18-472** 3-4 DAYS

⊖ 1 ⊕ **£467.50**

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Qty 1-10
£467.50
Qty 11+
£420.75
Volume Pricing
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⚠ Prices shown are exclusive of VAT/local taxes

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Abbe Number (v_d):
72.24

Axis Orientation:
Random

Bevel:
Protective as needed

Birefringence (n_o-n_e): 0.008 for Visible Light Orthogonal to Optical Axis
Clear Aperture (%): 90
Clear Aperture CA (mm): 45.72
Diameter (mm): 50.80 ±0.05
Thickness (mm): 3.18 ±0.05
Coating: Hardened BBAR (2000-5000nm)
Coating Specification: R _{avg} <1.5% @ 2000 - 5000nm R _{abs} <2.0% @ 2000 - 5000nm
Coefficient of Thermal Expansion CTE (10⁻⁶/°C): 8.8
Density (g/cm³): 3.97
Edges: Fine Ground
Index of Refraction n_d: 1.77
Knoop Hardness (kg/mm²): 1900
Parallelism (arcmin): ≤3.5
Poisson's Ratio: 0.27
Substrate: Sapphire (Al ₂ O ₃)
Surface Flatness (P-V): 2λ (typical)
Surface Quality: 80-50
Type: Protective Window
Wavelength Range (nm): 2000 - 5000
Young's Modulus (GPa): 435
Coating Abrasion: Severe, per MIL-C-675C Paragraph 4.5.10
Coating Adhesion: Per MIL-M-13508C Paragraph 4.4.6
Coating Humidity: ≥24 Hours per MIL-C-675C paragraph 4.5.8
Coating Salt Solubility: ≥24 Hours Immersion per MIL-C-675C paragraph 4.5.7
Coating Salt Spray: ≥24 Hours per MIL-C-675C paragraph 4.5.9
Coating Temperature (°F): -80 to +160 per MIL-M-13508C Paragraph 4.4.4

Regulatory Compliance

RoHS: Compliant
Certificate of Conformance: View