

10mm Dia., 0.5mm Thick, 400-1100nm, High Durability AR Coated Sapphire Window



High Durability Anti-Reflection (AR) Coated Sapphire Windows

Stock **#18-463** ☐ In Stock

-

1

+

C\$157.50

ADD TO CART

Qty 1-10

C\$157.50

Qty 11+

C\$142.10

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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) : 9.00
Diameter (mm) : 10.00 ±0.05
Thickness (mm) : 0.50 ±0.05
Coating : Hardened VIS-NIR (400-1100nm)
Coating Specification : R _{avg} <1.5% @ 400 - 1100nm R _{abs} <2.0% @ 400 - 1100nm
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) : 400 - 1100
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