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SUBMIT



High Durability Anti-Reflection (AR) Coated Sapphire Windows

Stock #18-467 3-4 DAYS



1



€120,00

ADD TO CART

Qty 1-10

€120,00

Qty 11+

€108,00

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

|                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------|
| <b>Birefringence (n<sub>o</sub>-n<sub>e</sub>):</b><br>0.008 for Visible Light Orthogonal to Optical Axis         |
| <b>Clear Aperture (%):</b><br>90                                                                                  |
| <b>Clear Aperture CA (mm):</b><br>4.50                                                                            |
| <b>Diameter (mm):</b><br>5.00 ±0.05                                                                               |
| <b>Thickness (mm):</b><br>0.50 ±0.05                                                                              |
| <b>Coating:</b><br>Hardened BBAR (2000-5000nm)                                                                    |
| <b>Coating Specification:</b><br>R <sub>avg</sub> <1.5% @ 2000 - 5000nm<br>R <sub>abs</sub> <2.0% @ 2000 - 5000nm |
| <b>Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):</b><br>8.8                                          |
| <b>Density (g/cm³):</b><br>3.97                                                                                   |
| <b>Edges:</b><br>Fine Ground                                                                                      |
| <b>Index of Refraction n<sub>d</sub>:</b><br>1.77                                                                 |
| <b>Knoop Hardness (kg/mm²):</b><br>1900                                                                           |
| <b>Parallelism (arcmin):</b><br>≤3.5                                                                              |
| <b>Poisson's Ratio:</b><br>0.27                                                                                   |
| <b>Substrate:</b><br>Sapphire (Al <sub>2</sub> O <sub>3</sub> )                                                   |
| <b>Surface Flatness (P-V):</b><br>2λ (typical)                                                                    |
| <b>Surface Quality:</b><br>80-50                                                                                  |
| <b>Type:</b><br>Protective Window                                                                                 |
| <b>Wavelength Range (nm):</b><br>2000 - 5000                                                                      |
| <b>Young's Modulus (GPa):</b><br>435                                                                              |
| <b>Coating Abrasion:</b><br>Severe, per MIL-C-675C Paragraph 4.5.10                                               |
| <b>Coating Adhesion:</b><br>Per MIL-M-13508C Paragraph 4.4.6                                                      |
| <b>Coating Humidity:</b><br>≥24 Hours per MIL-C-675C paragraph 4.5.8                                              |
| <b>Coating Salt Solubility:</b><br>≥24 Hours Immersion per MIL-C-675C paragraph 4.5.7                             |
| <b>Coating Salt Spray:</b><br>≥24 Hours per MIL-C-675C paragraph 4.5.9                                            |
| <b>Coating Temperature (°F):</b><br>-80 to +160 per MIL-M-13508C Paragraph 4.4.4                                  |

## Regulatory Compliance

|                                                            |
|------------------------------------------------------------|
| <b>RoHS:</b><br><a href="#">Compliant</a>                  |
| <b>Certificate of Conformance:</b><br><a href="#">View</a> |