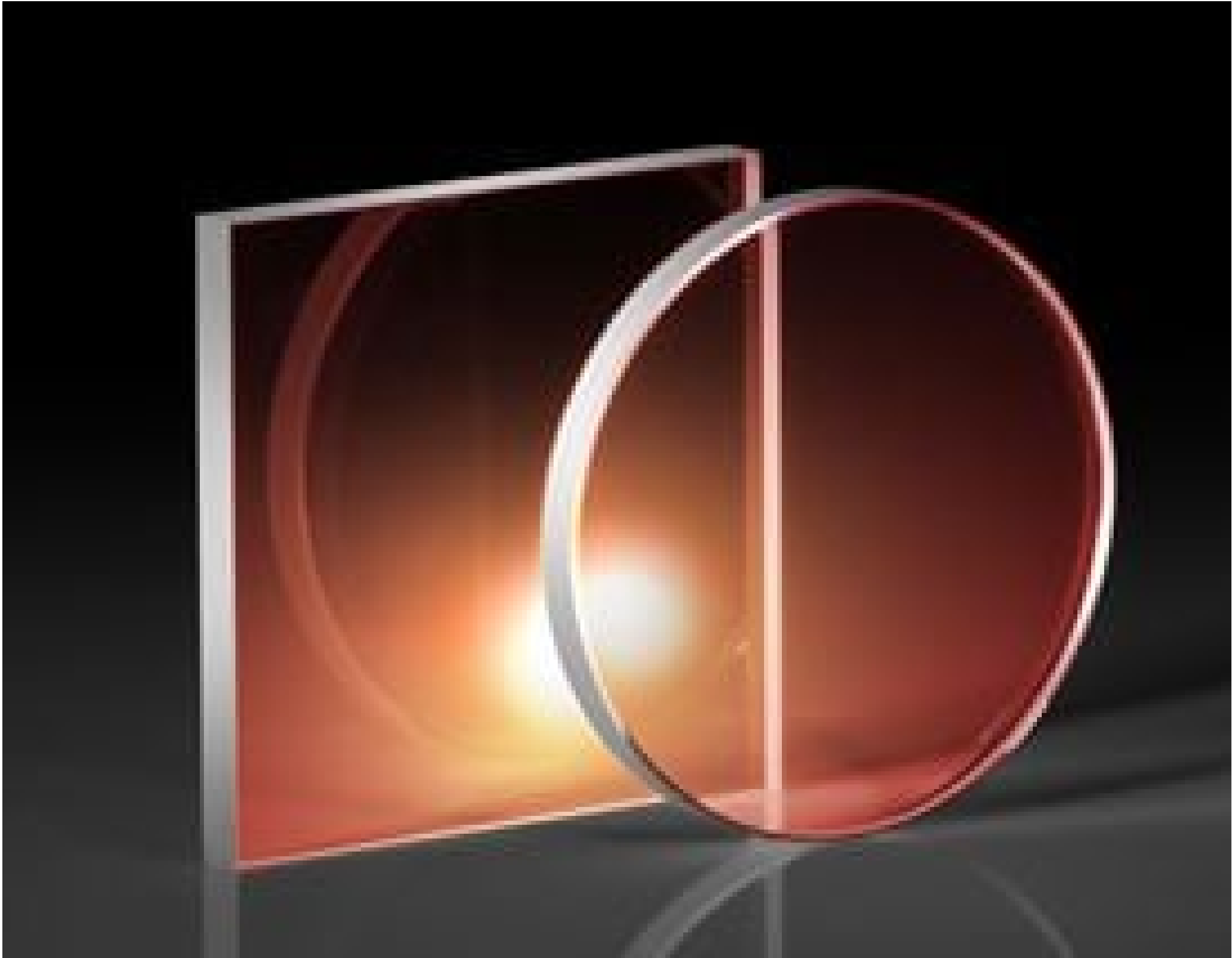


TECHSPEC[®] 50 x 50mm Dia., 3.18mm Thick, 1 Side VIS-NIR Sapphire Window



Single-Side AR-Coated Sapphire Windows

Stock #90-044 NEW 1 In Stock

-

1

+

€545⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-24	€545,00 each
Qty 25-50	€437,00 each
Qty 51-99	€410,00 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Protective Window

Physical & Mechanical Properties

45 x45

Clear Aperture CA (mm):

Dimensions (mm):

50.0 x50.0 ±0.15	
3.18 ±0.05	Thickness (mm):
50.00	Length (mm):
50.00	Width (mm):
≤3.5	Parallelism (arcmin):
Protective as needed	Bevel:
90	Clear Aperture (%):
Fine Ground	Edges:
0.27	Poisson's Ratio:
435	Young's Modulus (GPa):
1,900.00	Knoop Hardness (kg/mm²):

Optical Properties	
VIS-NIR (400-1000nm)	Coating:
Sapphire (Al ₂ O ₃)	Substrate: □
1.77	Index of Refraction (n _d):
80-50	Surface Quality:
72.24	Abbe Number (v _d):
0.008 for Visible Light Orthogonal to Optical Axis	Birefringence (n _o -n _e):
Random	Axis Orientation:
R _{avg} ≤0.25% @ 880nm R _{avg} ≤1.25% @ 400 - 870nm R _{avg} ≤1.25% @ 890 - 1000nm	Coating Specification:
400 - 1000	Wavelength Range (nm):

Material Properties	
3.97	Density (g/cm³):
8.8	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):

Regulatory Compliance	
View	Certificate of Conformance:

Product Details

- Combines the High Transmission of an AR-Coating with the Ruggedness of Sapphire
- Ideal for Applications Where High Environmental Resistance is Required
- Uncoated Surface can Withstand Intensive Cleaning and Abrasion

TECHSPEC® Single-Side AR-Coated Sapphire Windows feature a durable single-crystal sapphire substrate with an Anti-Reflection coating on one side for improved performance. The single-surface coating combines the benefits of higher transmission with the hardness, strength, and chemical resistance of sapphire. These windows are available in VIS-NIR (400-1000nm) or VIS-EXT (350-700nm) single-sided coating options. TECHSPEC® Single-Side AR-Coated Sapphire Windows can be used with the uncoated surface facing outwards to resist abrasion or harsh chemicals, ensuring the coated surface is not exposed to conditions that may cause damage and reduce performance. These windows are ideal for applications in food or healthcare where intensive cleaning is necessary.