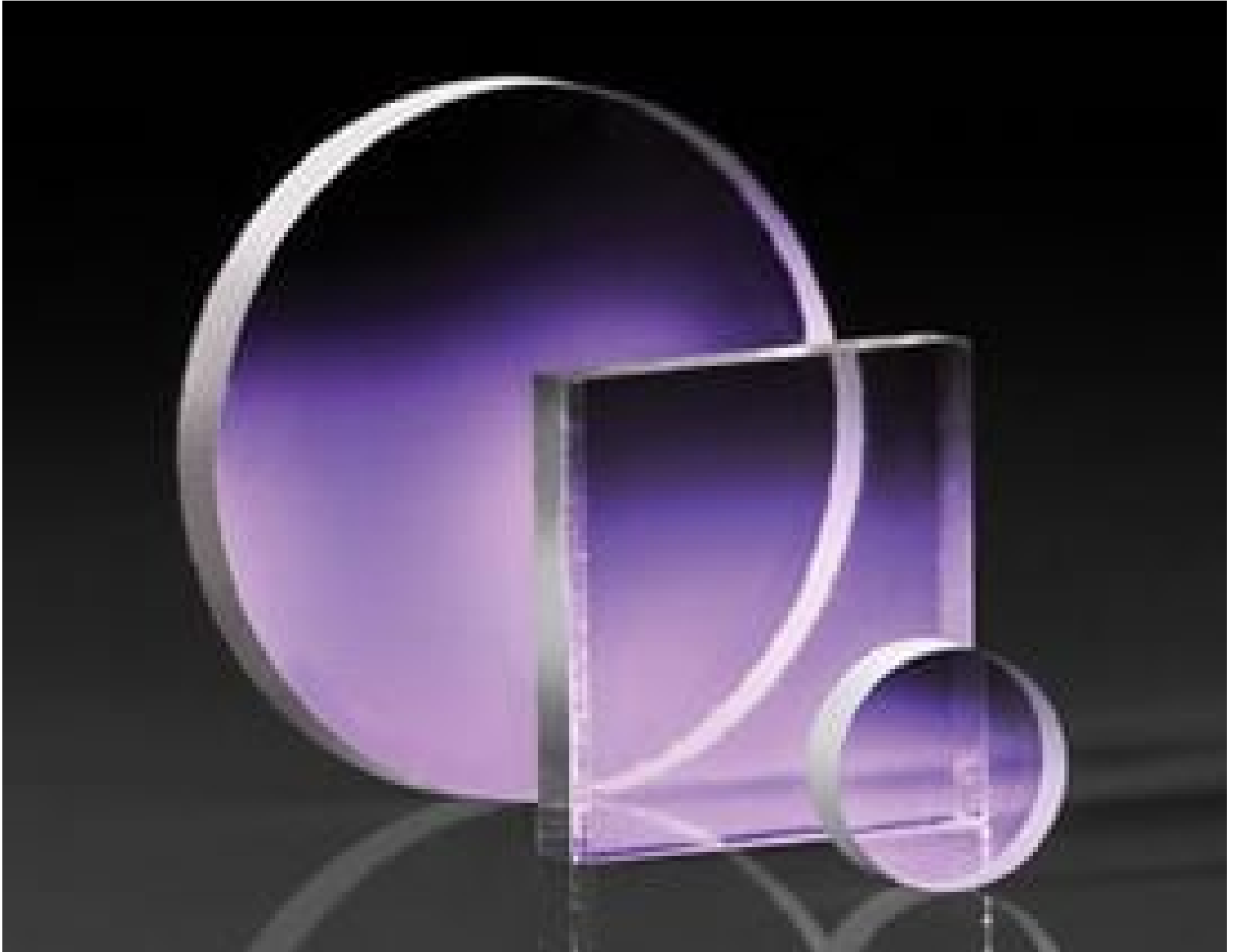


TECHSPEC® 50mm Diameter x 3.3mm Thickness, NIR Coated, BOROFLOAT® Window

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TECHSPEC BOROFLOAT Borosilicate Windows

Stock #12-193 **20+ In Stock**

⊖ 1 ⊕ ₹3,961

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Volume Pricing	
Qty 1-5	₹3,961 each
Qty 6-25	₹3,154 each
Qty 26-99	₹2,897 each
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SPECIFICATIONS

General

Protective Window **Type:**

Physical & Mechanical Properties

Protective as needed **Bevel:**

≥90 **Clear Aperture (%):**

45.00 **Clear Aperture CA (mm):**

50.00 ±0.5 **Diameter (mm):**

3.30 ±0.2 **Thickness (mm):**

Ground **Edges:**

480.00 **Knoop Hardness (kg/mm²):**

0.20 **Poisson's Ratio:**

64 **Young's Modulus (GPa):**

Optical Properties

65.41 **Abbe Number (v_d):**

NIR (700-1150nm) **Coating:**

R_{avg} <1.0% @ 700 - 1150nm **Coating Specification:**

1.472 **Index of Refraction (n_d):**

BOROFLOAT® **Substrate:**

4 - 6λ **Surface Flatness (P-V):**

80-50 **Surface Quality:**

≥97 **Transmission (%):**

700 - 1150 **Wavelength Range (nm):**

Material Properties

3.25 (+20 to +300°C) **Coefficient of Thermal Expansion CTE (10⁻⁶/°C):**

2.23 **Density (g/cm³):**

525 **Transformation Temperature (°C):**

Environmental & Durability Factors

1 hour @ 500; >100 hours @ 450 **Operating Temperature (°C):**

Short Term, 1 hr: 110K
1 - 100 hrs: 90K
Long Term, >100 hrs: 80K **Resistance to Temperature Difference (K):**

Up to 4mm Thick: 175K
4 - 6mm Thick: 160K
6 - 15mm Thick: 150K **Thermal Shock (K):**

Regulatory Compliance

Compliant **RoHS 2015:**

View **Certificate of Conformance:**

Compliant **Reach 247:**

PRODUCT DETAILS

- Low Coefficient of Thermal Expansion
- Visible to Near Infrared Transmission
- High Resistance to Thermal Shock

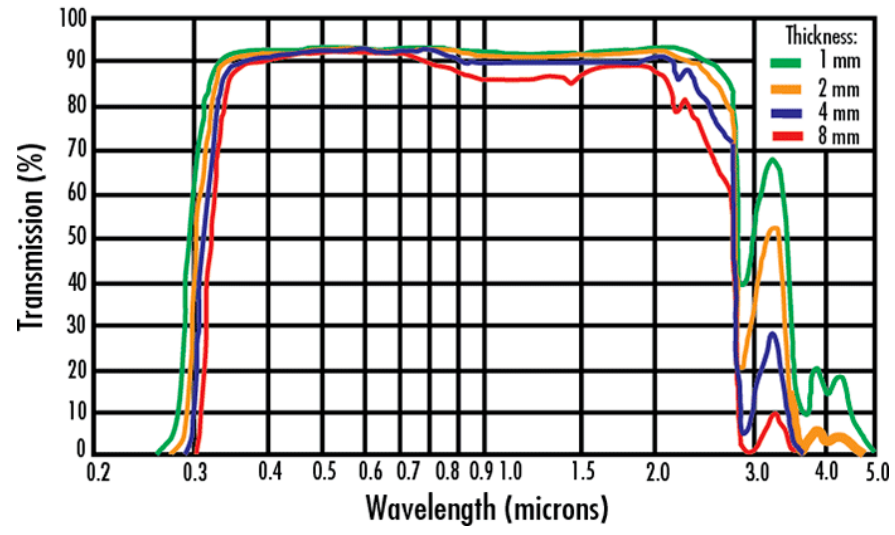
TECHSPEC® BOROFLOAT® Borosilicate Windows are ideal for high temperature and harsh environment applications. The windows have a low coefficient of thermal expansion of 3.25 (+20 to +300°C).

TECHSPEC® BOROFLOAT® Borosilicate Windows feature visible to near infrared transmission. Unlike common borosilicate that is drawn flat, BOROFLOAT® is produced by a float technique that yields superior surface flatness — typically 4 - 6λ per inch. BOROFLOAT® is about three times more resistant to thermal shock than standard soda lime glass.

Can't find what you need? Get a quick [custom quote](#).

TECHNICAL INFORMATION

BOROFLOAT®



QUOTE YOUR SIZE

COMPATIBLE MOUNTS