

TECHSPEC®

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

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TECHSPEC BOROFLOAT Borosilicate Windows

Stock **#12-194** **6 In Stock**

-

1

+

A\$95<sup>.20</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | A\$95.20 each                 |
| Qty 6-25       | A\$75.20 each                 |
| Qty 26-99      | A\$70.40 each                 |
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Product Downloads

General

Protective Window

Type:

Physical & Mechanical Properties

45.00 x 45.00

Clear Aperture CA (mm):

Dimensions (mm):

|                      |                          |
|----------------------|--------------------------|
| 50.00 x 50.00        |                          |
| 3.30 ±0.2            | Thickness (mm):          |
| 50.00                | Length (mm):             |
| 50.00                | Width (mm):              |
| Protective as needed | Bevel:                   |
| ≥90                  | Clear Aperture (%):      |
| Seamed               | Edges:                   |
| 0.20                 | Poisson's Ratio:         |
| 64                   | Young's Modulus (GPa):   |
| 480.00               | Knoop Hardness (kg/mm²): |

Optical Properties

|                                       |                                        |
|---------------------------------------|----------------------------------------|
| NIR (700-1150nm)                      | Coating:                               |
| <a href="#">BOROFLOAT®</a>            | Substrate: □                           |
| 1.472                                 | Index of Refraction (n <sub>d</sub> ): |
| 80-50                                 | Surface Quality:                       |
| ≥97                                   | Transmission (%):                      |
| 65.41                                 | Abbe Number (v <sub>d</sub> ):         |
| R <sub>avg</sub> <1.0% @ 700 - 1150nm | Coating Specification:                 |
| 700 - 1150                            | Wavelength Range (nm):                 |
| 4 - 6λ                                | Surface Flatness (P-V):                |

Material Properties

|                      |                                                              |
|----------------------|--------------------------------------------------------------|
| 2.23                 | Density (g/cm³):                                             |
| 525                  | Transformation Temperature (°C):                             |
| 3.25 (+20 to +300°C) | Coefficient of Thermal Expansion CTE (10 <sup>-6</sup> /°C): |

Environmental & Durability Factors

|                                                                        |                                           |
|------------------------------------------------------------------------|-------------------------------------------|
| 1 hour @ 500; >100 hours @ 450                                         | Operating Temperature (°C):               |
| Short Term, 1 hr: 110K<br>1 - 100 hrs: 90K<br>Long Term, >100 hrs: 80K | Resistance to Temperature Difference (K): |
| Up to 4mm Thick: 175K<br>4 - 6mm Thick: 160K<br>6 - 15mm Thick: 150K   | Thermal Shock (K):                        |

Regulatory Compliance

|                           |                             |
|---------------------------|-----------------------------|
| <a href="#">Compliant</a> | RoHS 2015:                  |
| <a href="#">View</a>      | Certificate of Conformance: |
| <a href="#">Compliant</a> | Reach 247:                  |

Product Details

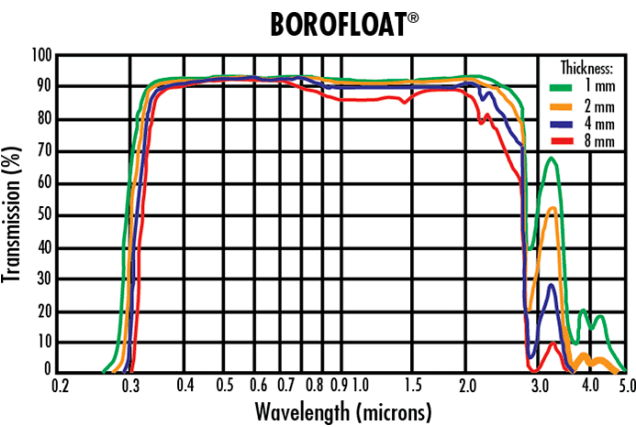
- Low Coefficient of Thermal Expansion
- Visible to Near Infrared Transmission
- High Resistance to Thermal Shock

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.

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## Technical Information



## Quote Your Size

## Compatible Mounts