

TECHSPEC®

200mm Diameter x 6.5mm Thickness, Uncoated, BOROFLOAT® Window

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TECHSPEC BOROFLOAT Borosilicate Windows

Stock **#45-686** **20+ In Stock**

-

1

+

€94<sup>.00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | €94,00 each                   |
| Qty 6-25       | €75,00 each                   |
| Qty 26-99      | €68,00 each                   |
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Product Downloads

General

Protective Window

Type:

Physical & Mechanical Properties

Protective as needed

Bevel:

|             |                          |
|-------------|--------------------------|
| ≥90         | Clear Aperture (%):      |
| 180.00      | Clear Aperture CA (mm):  |
| 200.00 ±0.5 | Diameter (mm):           |
| 6.50 ±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 <sub>d</sub> ):         |
| Uncoated   | Coating:                               |
| 1.472      | Index of Refraction (n <sub>d</sub> ): |
| BOROFLOAT® | Substrate:                             |
| 4 - 6λ     | Surface Flatness (P-V):                |
| 80-50      | Surface Quality:                       |
| 90         | Transmission (%):                      |
| 350 - 2000 | Wavelength Range (nm):                 |

Material Properties

|                      |                                                              |
|----------------------|--------------------------------------------------------------|
| 3.25 (+20 to +300°C) | Coefficient of Thermal Expansion CTE (10 <sup>-6</sup> /°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<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

|           |                             |
|-----------|-----------------------------|
| Compliant | RoHS 2015:                  |
| View      | Certificate of Conformance: |
| Compliant | Reach 247:                  |

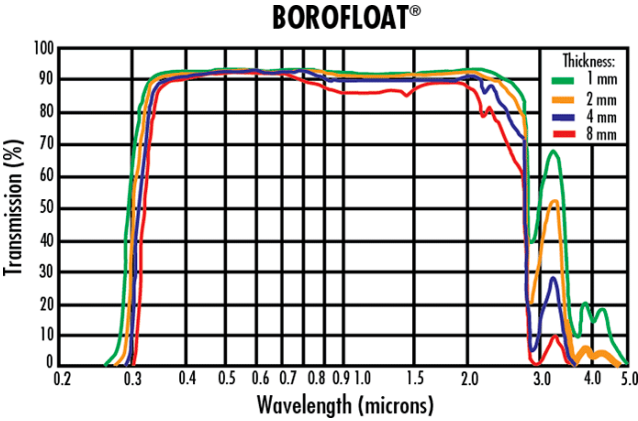
## Product Details

- 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.

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## Technical Information



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