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TECHSPEC® 30mm Diameter x 1.1mm Thickness, Uncoated, BOROFLOAT® Window

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TECHSPEC BOROFLOAT Borosilicate Windows

Stock #29-389 **14 In Stock**

C\$47⁹⁵

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Volume Pricing	
Qty 1-5	C\$47.95 each
Qty 6-25	C\$37.80 each
Qty 26-99	C\$36.40 each
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General

Protective Window **Type:**

Glass **Type of Window:**

Physical & Mechanical Properties

Clear Aperture CA (mm):

27.00

30.00 ±0.50

Diameter (mm):

1.10 ±0.2

Thickness (mm):

Protective as needed

Bevel:

≥90

Clear Aperture (%):

Ground and Seamed

Edges:

0.20

Poisson's Ratio:

64

Young's Modulus (GPa):

480.00

Knoop Hardness (kg/mm²):

Optical Properties

Uncoated

Coating:

BOROFLOAT®

Substrate:

1.472

Index of Refraction (n_d):

80-50

Surface Quality:

90

Transmission (%):

65.41

Abbe Number (v_d):

350 - 2000

Wavelength Range (nm):

4 - 6λ

Surface Flatness (P-V):

Material Properties

2.23

Density (g/cm³):

525

Transformation Temperature (°C):

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

Environmental & Durability Factors

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

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

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

Regulatory Compliance

Compliant

RoHS 2015:

View

Certificate of Conformance:

Compliant

Reach 247:

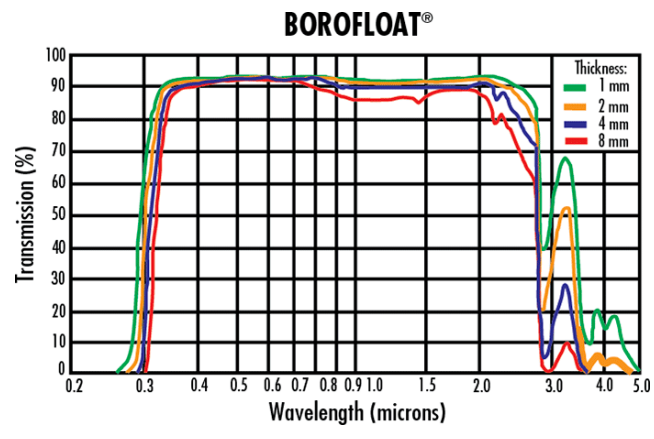
Product Details

- 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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Compatible Mounts
