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## TECHSPEC® 40mm Diameter x 3.3mm Thickness, MgF<sub>2</sub> Coated, BOROFLOAT® Window

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TECHSPEC BOROFLOAT Borosilicate Windows

Stock #29-406 **14 In Stock**

S\$66<sup>.50</sup>

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| Qty 1-5        | S\$66.50 each                 |
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### Product Downloads

### General

Protective Window **Type:**

Glass **Type of Window:**

### Physical & Mechanical Properties

**Clear Aperture CA (mm):**

|                      |  |
|----------------------|--|
| 36.00                |  |
| 40.00 ±0.50          | <b>Diameter (mm):</b>                      |
| 3.30 ±0.2            | <b>Thickness (mm):</b>                     |
| Protective as needed | <b>Bevel:</b>                              |
| ≥90                  | <b>Clear Aperture (%):</b>                 |
| Ground and Seamed    | <b>Edges:</b>                              |
| 0.20                 | <b>Poisson's Ratio:</b>                    |
| 64                   | <b>Young's Modulus (GPa):</b>              |
| 480.00               | <b>Knoop Hardness (kg/mm<sup>2</sup>):</b> |

## Optical Properties

|                    |   |
|--------------------|---|
| MgF2 (400-700nm)   | <b>Coating:</b>                             |
| <b>BOROFLOAT®</b>  | <b>Substrate:</b> <input type="checkbox"/>  |
| 1.472              | <b>Index of Refraction (n<sub>d</sub>):</b> |
| 80-50              | <b>Surface Quality:</b>                     |
| ≥95                | <b>Transmission (%):</b>                    |
| 65.41              | <b>Abbe Number (v<sub>d</sub>):</b>         |
| Rabs ≤2.5% @ 550nm | <b>Coating Specification:</b>               |
| 400 - 700          | <b>Wavelength Range (nm):</b>               |
| 4 - 6λ             | <b>Surface Flatness (P-V):</b>              |

## Material Properties

|                      |   |
|----------------------|---|
| 2.23                 | <b>Density (g/cm<sup>3</sup>):</b>                                |
| 525                  | <b>Transformation Temperature (°C):</b>                           |
| 3.25 (+20 to +300°C) | <b>Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):</b> |

## Environmental & Durability Factors

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

## Regulatory Compliance

|                  |                                    |
|------------------|------------------------------------|
| <b>Compliant</b> | <b>RoHS 2015:</b>                  |
| <b>View</b>      | <b>Certificate of Conformance:</b> |
| <b>Compliant</b> | <b>Reach 247:</b>                  |

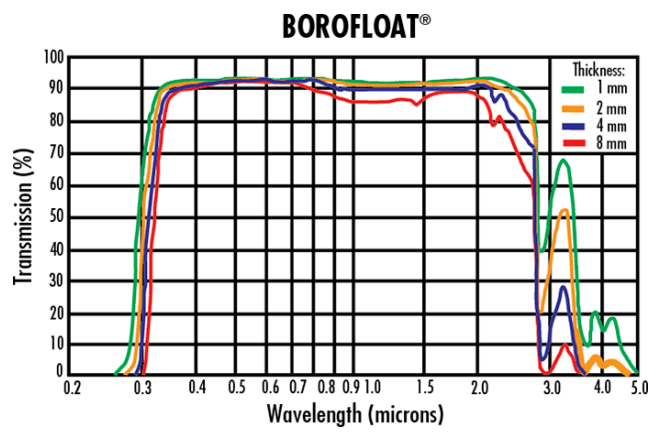
## Product Details

- 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



**Coating Curves**

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**Compatible Mounts**