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**TECHSPEC®**

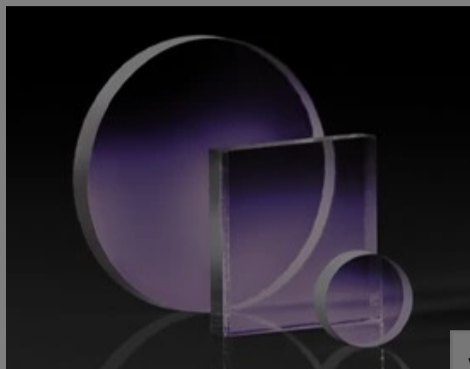
**25 x 25 x 3.3mm**

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Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

Select Your Country/Region: European Union

Submit



TECHSPEC BOROFLOAT Borosilicate Windows

Stock #48-542 **20+ In Stock**

1

€28<sup>,00</sup>

**ADD TO CART**



Volume Pricing	
Qty 1-5	€28,00 each
Qty 6-25	€22,00 each
Qty 26-99	€21,00 each
Need More?	<a href="#">Request Quote</a>

Prices shown are exclusive of VAT/local taxes

Product Downloads	
STEP:step	PDF Drawing:pdf
IGES:igs	eDrawing:eprt
EO Spec Sheet	<a href="#">Download All</a>

### General

<b>Type:</b> Protective Window	<b>Type of Window:</b> Glass
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### Physical & Mechanical Properties

<b>Clear Aperture CA (mm):</b> 22.50 x 22.50	<b>Dimensions (mm):</b> 25.00 x 25.00
<b>Thickness (mm):</b> 3.30 ±0.2	<b>Length (mm):</b> 25.00
<b>Width (mm):</b> 25.00	<b>Dimensional Tolerance (mm):</b> ±0.5
<b>Bevel:</b> Protective as needed	<b>Clear Aperture (%):</b> ≥90
<b>Edges:</b> Seamed	<b>Poisson's Ratio:</b> 0.20
<b>Young's Modulus (GPa):</b> 64	<b>Knoop Hardness (kg/mm<sup>2</sup>):</b> 480.00

### Optical Properties

<b>Coating:</b> Uncoated	<b>Substrate:</b> <b>BOROFLOAT®</b>
<b>Index of Refraction (n<sub>d</sub>):</b> 1.472	<b>Surface Quality:</b> 80-50
<b>Transmission (%):</b> 90	<b>Abbe Number (v<sub>d</sub>):</b> 65.41
<b>Wavelength Range (nm):</b> 350 - 2000	<b>Surface Flatness (P-V):</b> 4 - 6λ

## Material Properties

**Density (g/cm<sup>3</sup>):** 2.23

**Transformation Temperature** 525

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

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## 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

RoHS 2015: **Compliant**

Certificate of Conformance: **View**

Reach 247: **Compliant**

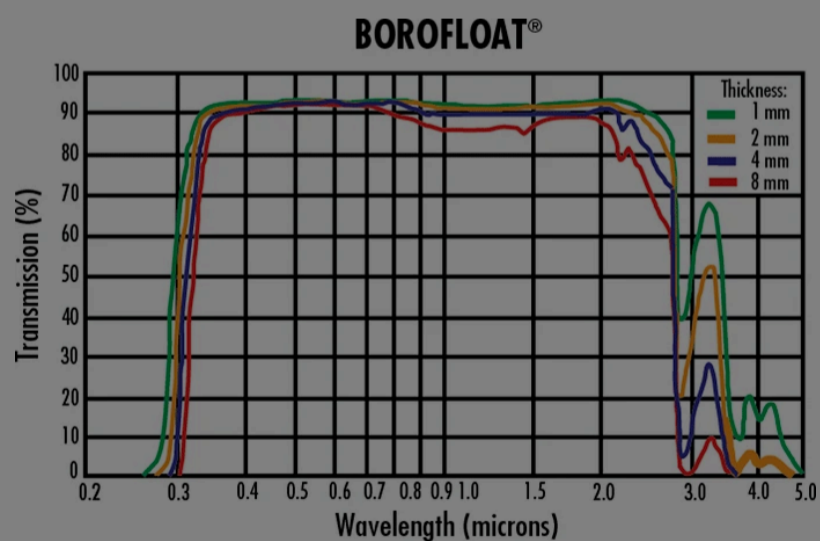
## Product Details

- 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



## Quote Your Size

PLEASE ENTER YOUR  
REQUIRED SPECIFICATIONS  
HERE:

Type

Window/Diffuser

Substrate

Thickness (mm)

Shape ⓘ

Diameter (mm) ⓘ

Length (mm) ⓘ

Width (mm) ⓘ

Quantity ⓘ

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**GET PRICING**

TYPICAL 4-6 WEEK DELIVERY. DELIVERY DATE TO BE CONFIRMED AT TIME OF ORDER.

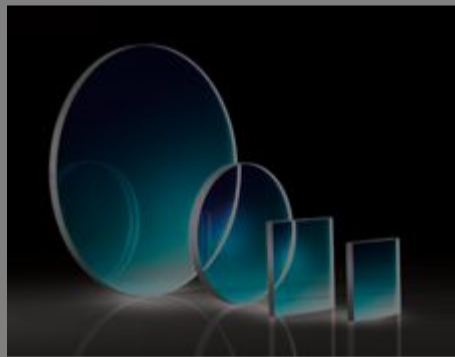
OTHER SUBSTRATES, DIMENSIONS AND THICKNESSES OUTSIDE OF THOSE SHOWN HERE ARE ALSO AVAILABLE. IF YOU ARE INTERESTED IN A PRODUCT OUTSIDE OF THE SPECIFICATIONS SHOWN IN THIS TABLE, PLEASE [CONTACT US](#) TO DISCUSS MANUFACTURING FEASIBILITY.

### Frequently Purchased Together



#30-429 - 30 x 40mm, 4-6λ Mirror  
€30,75

Qty



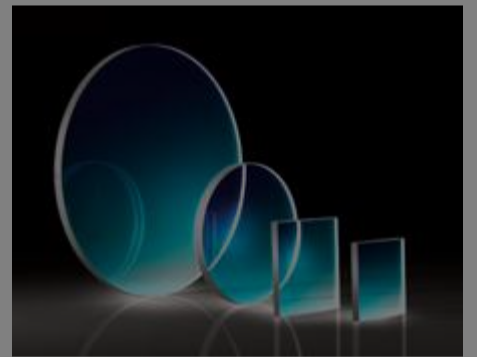
#30-773 - 25mm Diameter Float Glass Window  
€19,00

Qty



#32-337 - 25mm, Aluminum Coated, N-BK7 Right Angle Prism  
€88,50

Qty



#02-105 - 12.5mm Diameter Float Glass Window  
€15,00

Qty

### Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	15mm Sq., Fixed Filter Holder	Fixed		#54-996	€67,50 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>
	25/25.4mm Sq. Kinematic Mount, 2 Screws	Adjustable - Tip-Tilt		#58-857	€104,00 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>
	25mm sq - Rectangular Bar Clamp	Fixed		#54-994	€108,00 <a href="#">Request Quote</a>	8 In Stock <input type="text" value="1"/>
	25/25.4mm Sq. Kinematic Mount, 3 Screws	Adjustable - Tip-Tilt		#58-860	€114,00 <a href="#">Request Quote</a>	15 In Stock <input type="text" value="1"/>

	Title	Type	Compare	Stock Number	Price	Buy
<a href="#">MORE+</a>	Filter Kinematic Mount, 2-Screw	Adjustable -			€122,00	20+ In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	60mm sq - Rectangular Clamp					20+ In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	Filter Kinematic Mount, 3-Screw	Adjustable - Tip-Tilt		#58-875	€138,00 <a href="#">Request Quote</a>	15 In Stock <input type="text" value="1"/>

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Check out our full selection of mounts [here](#).

# Resources

## Media Type

- Application Note
- Technical Tool
- Video
- Glossary
- FAQ

**APPLICATION NOTE**  
**Anti-Reflection (AR) Coatings**

**APPLICATION NOTE**  
**An Introduction to Optical Coatings**

**TECHNICAL TOOL**  
**Beam Displacement Calculator**

**APPLICATION NOTE**  
**Understanding Optical Windows**

**VIDEO**  
**Optical Windows Review**

**APPLICATION NOTE**  
**Optical Glass**

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