

TECHSPEC®

50 x 50 x 3.3mm Thickness, Uncoated, BOROFLOAT® Window

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TECHSPEC BOROFLOAT Borosilicate Windows

Stock **#48-543** **20+ In Stock**

-

1

+

€32¹⁹

ADD TO CART

Volume Pricing	
Qty 1-5	€32,19 each
Qty 6-25	€25,75 each
Qty 26-99	€23,69 each
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! Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Type:

Protective Window

Physical & Mechanical Properties	
Protective as needed	Bevel:
≥90	Clear Aperture (%):
45.00 x 45.00	Clear Aperture CA (mm):
50.00 x 50.00	Dimensions (mm):
3.30 ±0.2	Thickness (mm):
Seamed	Edges:
480.00	Knoop Hardness (kg/mm²):
0.20	Poisson's Ratio:
64	Young's Modulus (GPa):
50.00	Length (mm):
50.00	Width (mm):
Optical Properties	
65.41	Abbe Number (v _d):
Uncoated	Coating:
1.472	Index of Refraction (n _d):
BOROFLOAT®	Substrate:
4 - 6λ	Surface Flatness (P-V):
80-50	Surface Quality:
90	Transmission (%):
350 - 2000	Wavelength Range (nm):
Material Properties	
Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C): 3.25 (+20 to +300°C)	
2.23	Density (g/cm³):
525	Transformation Temperature (°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:
Compliant	Reach 2011:
View	Certificate of Conformance:

PRODUCT DETAILS

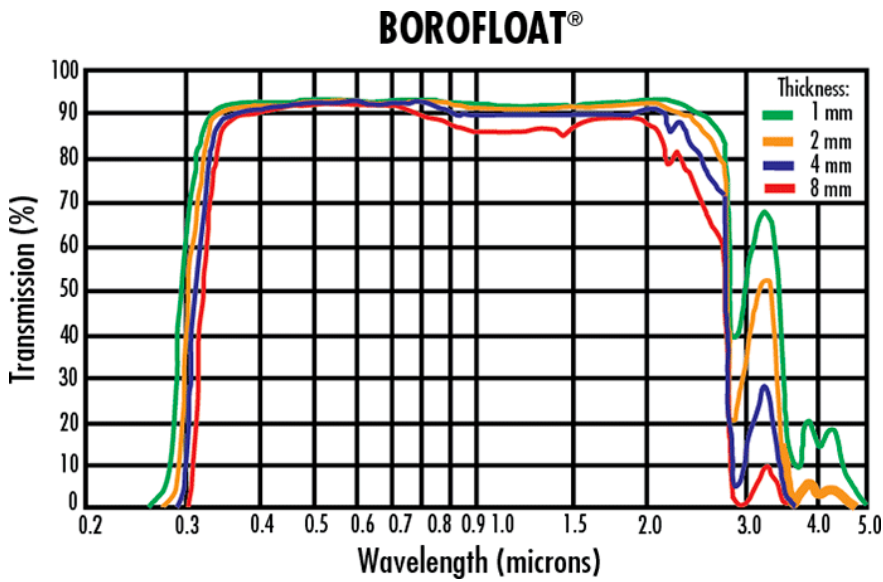
- Low Coefficient of Thermal Expansion

- 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