

LiDAR systems inspired by BOROFLOAT® 33

In touch with the future

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The reliable and consistent quality of BOROFLOAT[®] 33, coupled with an outstanding versatility to address the demands of even the most sophisticated applications, make BOROFLOAT[®] 33 a perfect specialty glass solution also for LiDAR systems. It combines superior quality and excellent flatness with outstanding thermal, optical, chemical and mechanical features. BOROFLOAT[®] 33 – The sum of its properties is what makes it unique!

Crystal clear benefits of BOROFLOAT® 33

Entrance window

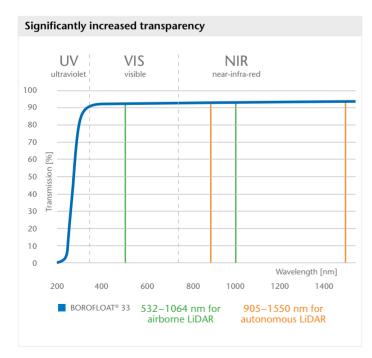
- Exceptionally high transparency
- High chemical durability
- Outstanding thermal resistance/ stability
 - · Low thermal expansion even in lowest temperature ranges
- Excellent mechanical strength
 - · Strong resistance to abrasion and scratches
 - · High resistance to sharp impacts

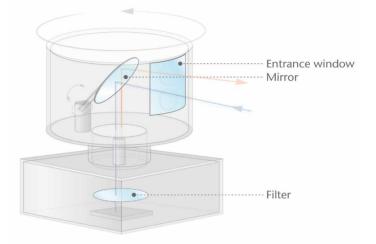
Mirror (Beamsplitter)

- Very good temperature stability
- Excellent resistance to thermal shock

Filter

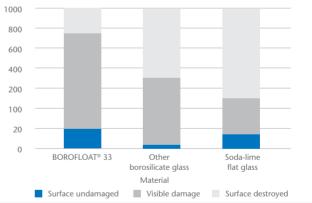
- Significantly increased transparency for colorless visual appearance
- Low color shift in VIS-Transmission
- Low Coefficient of Linear Thermal Expansion (C.T.E. 3.25 10⁻⁶ K⁻¹)
- Excellent flatness due to unique Microfloat process





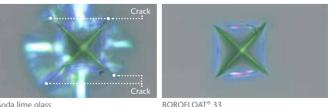
3 components of a traditional LiDAR unit could be made of BOROFLOAT® 33 borosilicate glass.





Resistance to crack initiation

Crack initiation at 2 N load



Soda lime glass BOROFLOAT® 33 BOROLOAT® 33 is less brittle than other protective glasses and more resistant to sharp impacts e.g. from stones.