

Lumiglas

Borosilicate Instrument Window Cover — Datasheet

Precision borosilicate instrument window covers for gauges, instrument panels and small sight ports. High optical clarity, good thermal and chemical resistance compared to soda-lime glass. Custom sizes, drilled hole patterns and edge finishes available. For extreme temperatures consider fused silica/quartz.

Quick Highlights

Material	Borosilicate glass
Typical Operating Temp	-60°C/+280°C
Typical Thickness Range	custom thickness available
Finish / Options	Polished optical finish; on request
Applications	Instrument windows, gauge covers, laboratory viewports

Typical Specifications

Item	Specification / Notes
Material Grade	Borosilicate Glass.
Shape	Round or custom CAD profiles.
Thickness	thicker on request for pressure/thermal needs.
Surface Finish	Optical polish; matte or ground edges optional.
Pressure	1.0MPa
Operating Temp	-60°C/+280°C. For higher temps use quartz.
Chemical Resistance	Resistant to many acids and alkalis
Certifications	Material & test reports (COA) available on request

Dimensional (typical round cover)

Parameter	Example Value
Outer Diameter (OD)	Ø 50 mm — Ø 200 mm (custom)
Visible Aperture	Depends on design; specify bore or visible opening
Bolt Circle / Hole Pattern	Per drawing — countersunk or through-holes available
Tolerance	Typically ± 0.2 mm; tighter tolerances on request

Ordering Information & Notes

To quote please provide: overall size (OD x thickness), visible aperture if applicable, hole/boss pattern (bolt circle & hole diameter), material grade, operating temperature & media. For custom shapes upload DWG/STEP. Tempering and chemical strengthening are available; they change mechanical properties — discuss with our engineering team.

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Note: Actual operating limits depend on glass thickness, mounting, and thermal gradients. Always consult our engineers for final selection.