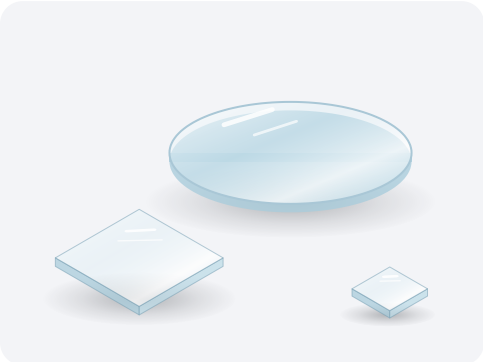
SERIES S25 · FUSED SILICA

Fused silica wafers and plates



Amorphous, high-purity synthetic SiO_2 with excellent UV transmission, very low thermal expansion and a smooth polished surface. Used for optical thin films, transparent device substrates, microfluidics and spectroscopy.

- Double-side polished, Ra < 1 nm
- Surface quality 40-20 scratch-dig
- n ≈ 1.458 (589 nm), CTE ≈ 0.55 × 10^{-6} /K
- Softening point ≈ 1600 – 1665 °C

GRADES

Grade	Useful transmission	OH content	Typical use
UV grade (JGS1-type)	185 – 2500 nm	High	UV optics, photolithography, UV-Vis spectroscopy
Optical grade (JGS2-type)	220 – 2500 nm	Medium	General optics, transparent substrates, MEMS
IR grade (JGS3-type)	260 – 3500 nm	Very low	NIR / IR windows, high-temperature work

CONFIGURATIONS

Ref. No.	Format	Thickness	Grade	Price
S2501	Wafer 2"	0.5 mm	UV grade	On request
S2502	Wafer 2"	0.5 mm	Optical grade	On request
S2503	Wafer 2"	0.5 mm	IR grade	On request
S2504	Wafer 2"	1.0 mm	UV grade	On request
S2505	Wafer 2"	1.0 mm	Optical grade	On request
S2506	Wafer 2"	1.0 mm	IR grade	On request
S2507	Wafer 4"	0.5 mm	UV grade	On request
S2508	Wafer 4"	0.5 mm	Optical grade	On request
S2509	Wafer 4"	0.5 mm	IR grade	On request
S2510	Wafer 4"	0.7 mm	UV grade	On request
S2511	Wafer 4"	0.7 mm	Optical grade	On request
S2512	Wafer 4"	0.7 mm	IR grade	On request
S2513	Wafer 4"	1.0 mm	UV grade	On request
S2514	Wafer 4"	1.0 mm	Optical grade	On request
S2515	Wafer 4"	1.0 mm	IR grade	On request
S2516	Wafer 6"	0.675 mm	UV grade	On request
S2517	Wafer 6"	0.675 mm	Optical grade	On request
S2518	Wafer 6"	1.0 mm	UV grade	On request
S2519	Wafer 6"	1.0 mm	Optical grade	On request
S2520	Plate 10 × 10 mm	0.5 mm	UV grade	On request
S2521	Plate 10 × 10 mm	0.5 mm	Optical grade	On request

Ref. No.	Format	Thickness	Grade	Price
S2522	Plate 10 × 10 mm	0.5 mm	IR grade	On request
S2523	Plate 10 × 10 mm	1.0 mm	UV grade	On request
S2524	Plate 10 × 10 mm	1.0 mm	Optical grade	On request
S2525	Plate 10 × 10 mm	1.0 mm	IR grade	On request
S2526	Plate 20 × 20 mm	1.0 mm	UV grade	On request
S2527	Plate 20 × 20 mm	1.0 mm	Optical grade	On request
S2528	Plate 20 × 20 mm	1.0 mm	IR grade	On request
S2529	Plate 20 × 20 mm	2.0 mm	UV grade	On request
S2530	Plate 20 × 20 mm	2.0 mm	Optical grade	On request
S2531	Plate 20 × 20 mm	2.0 mm	IR grade	On request
S2532	Plate 25 × 25 mm	1.0 mm	UV grade	On request
S2533	Plate 25 × 25 mm	1.0 mm	Optical grade	On request
S2534	Plate 25 × 25 mm	1.0 mm	IR grade	On request
S2535	Plate 25 × 25 mm	2.0 mm	UV grade	On request
S2536	Plate 25 × 25 mm	2.0 mm	Optical grade	On request
S2537	Plate 25 × 25 mm	2.0 mm	IR grade	On request
S2538	Plate 50 × 50 mm	1.0 mm	UV grade	On request
S2539	Plate 50 × 50 mm	1.0 mm	Optical grade	On request
S2540	Plate 50 × 50 mm	3.0 mm	UV grade	On request
S2541	Plate 50 × 50 mm	3.0 mm	Optical grade	On request

Specifications are typical values; every lot ships with a Certificate of Conformance, and measured data are available on request. Prices on request.