Heraeus

Covantics

Suprasil® Plate

The Smart Way to Plate-Like Ingot

These large-format, rectangular fused silica plates are engineered for highest precision and optimal price-performance ratio.

Suprasil® sets the benchmark for synthetic fused silica solutions in the photonics industry. With decades of expertise and precision manufacturing, we deliver plate geometries that combine exceptional optical homogeneity, high transmission, and superior quality.

Our innovative large sized plate solutions are designed to meet the most demanding requirements in laser and other optical applications: Suprasil® SmartPlate and Suprasil® ProPlate 75 offer unique advantages in geometry, size, and performance, enabling cost-efficient solutions without compromising quality. Explore the technical data and discover which Suprasil® plate is the perfect fit for your application.

Suprasil® SmartPlate IR

Suprasil® SmartPlate IR is made from synthetic fused silica, with its OH content ranging up to ~150 ppm, making it best suited for demanding laser applications at 1064 nm.

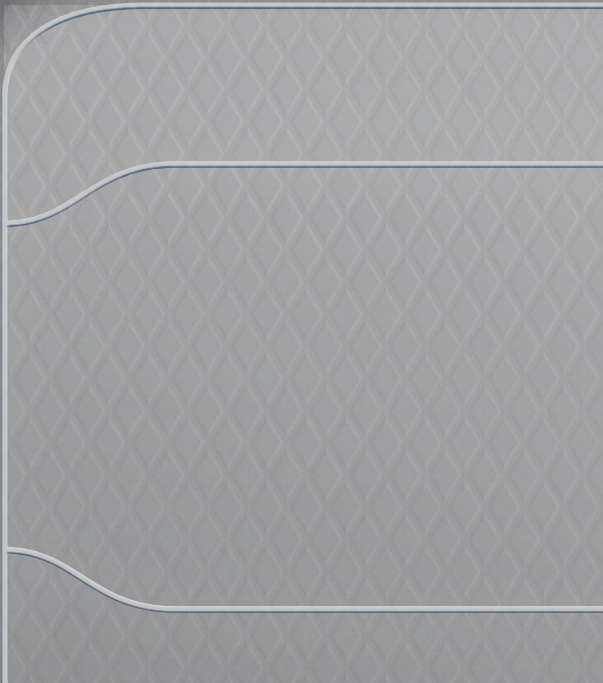
Length	1050 mm + 10 mm / – 50 mm
Width	505 mm + 10 mm / – 5 mm
Thickness (at 80% width)	50 mm ± 5 mm
Clear Aperture (CA on nominal size)	1030 mm × 485 mm
Homogeneity in CA	not specified
Stress Induced Birefringence (SIB) in CA	5 nm/cm
Bubbles and Inclusions in CA	no more than 6 bubbles in total; bubbles <0.1 mm not counted.

Suprasil® ProPlate IR

Suprasil® ProPlate IR is a synthetic fused silica with great optical homogeneity ≤ 5 ppm PV within the CA. Its OH content of up to ~75 ppm makes it perfectly suited for laser applications at 1064 nm.

Length	1050 mm + 10 mm / – 50 mm
Width	505 mm + 10 mm / – 5 mm
Thickness (at 80% width)	50 mm ± 5 mm
Clear Aperture (CA on nominal size)	970 mm × 470 mm
Homogeneity in CA	5 ppm PV
Stress Induced Birefringence (SIB) in CA	5 nm/cm
Bubbles and Inclusions in CA	no more than 6 bubbles in total; bubbles <0.1 mm not counted

12/2025



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