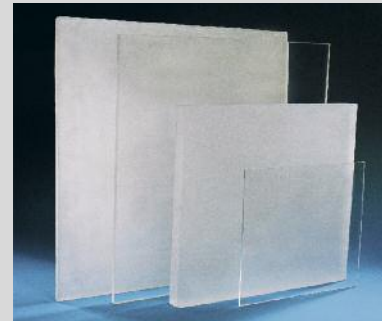


Heraeus Optical Plate Products

Heraeus fused quartz and fused silica plate products combine our most competitive unique material production processes with cost effective wire saw and double-sided polishing

to produce highly competitive performance plate products. These are available in standard stock sizes for immediate delivery or custom tailored to your needs.



General Specifications

Surface Quality:	TSC-3 [®] : 80-50 (60-40), Spectrosil [®] : 60-40
Flatness:	1λ / in, over 80 % CA
Parallelism:	Polished, 30 arc seconds or better over 80 % aperture
Bevels:	Break edge on polished parts, no bevels on wire saw cut plate
Stock Polished Plate:	10" □ (254 mm), 6.5" □ (165.1 mm), 4" □ (101.6 mm) x Thickness 1 mm, 1/16, 1/8, 1/4"
Blanks Wire Saw Cut:	20.5" x 23.6" (500 x 600 mm) x Thickness: 2.75, 3.75, 7.75 mm
Custom:	Size, thickness and polish by special request. Please contact us.

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TSC-3[®]

Fused Quartz Plate



ADVANTAGES

- Cost Effective plates: wires saw or polished
- High thermally shock resistance and temp use
- Low coefficient of thermal expansion
- Transmission properties from UV to IR
- Good chemical resistance (etch resistance)
- Excellent electrical properties (dielectric strength)

Material produced in continous draw process to produce highly cost-effective near-net shape fused quartz.

APPLICATIONS

Windows	for UV to NIR, high temperature, chemical or scratch and ablation resistant
View ports	for vacuum, high temperature furnaces, OEM equipment
Mirrors	for all purpose

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Spectrosil[®] 2000

High Purity Fused Silica Plate



ADVANTAGES

- Outstanding transmission properties from UV to IR
- Low absorption: Excimer, US, VIS and Nd:YAG lasers
- High purity – typical trace elements < 10 ppb
- Fluorescence free (Excitation by Hg-Lamp @ = 254nm and UQ 5-filter: 8W, detection: adapted eye)
- Low bubble content – Bubble Class 0 per DIN 58927 and low inclusion count – Maximum number of inclusions 0. (Bubble and inclusion with diameter ≤ 80 μm are not counted. Inclusions free down to 10 μm upon request.)

Similar to fused quartz with much improved optical performance (DUV/VIS/NIR transmission, bubble count); formed by mold-free CVD to produce ultra-high purity (< 0.01 ppm).

APPLICATIONS

Windows	for DUV to NIR, high purity, rad hard, high power lasers and optical instruments
Mirrors	for lasers and optical instruments
Substrates and Wafers	for high quality filters, integrated optics, diode and detector windows, any photonic devices fabricated on planar substrates

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