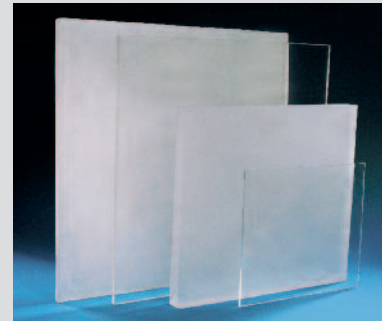


Heraeus Optical Plate Products

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" (520.7 x 599.44 mm) x Thickness: 2.75, 3.75, 7.75 mm
Custom:	Size, thickness and polish by special request. Please contact us.

TSC-3®

Fused Quartz Plate



ADVANTAGES

- Cost Effective plates: wires saw or polished
- High thermal 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)

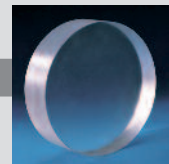
Material produced in continuous draw process to produce highly cost-effective near-net shap fused quartz.

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

Spectrosil® 2000

High Purity Fused Silica Plate



ADVANTAGES

- Outstanding transmission properties from UV to IR
- Low absorption: Excimer, US, VIS and Nd:YAG lasers
- Radiation resistance
- No fluorescence
- No bubbles and inclusion

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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