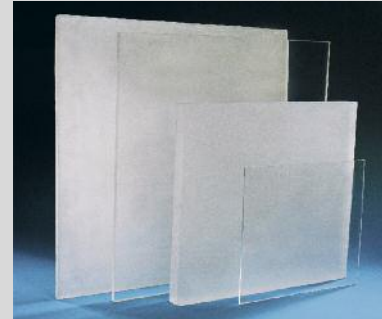


## Heraeus Optical Plate Products

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

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

### TSC-3<sup>®</sup>

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

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

### Spectrosil<sup>®</sup> 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

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

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