Spectraglass
SPECIALIST GLASS SOLUTIONS

SPECTRAGLASS Limited
Unit 2, Inveralmond Close,
Inveralmond Industrial
Estate, Perth PH1 3TT

Tel: 01738 638358
Fax: 01738 634744

info@spectraglass.com
www.spectraglass.com

QUARTZ (HERAEUS)

Spectrosil® is a synthetic fused silica manufactured using a patented, environmentally friendly process that results in a virtually Chlorine-free material of exceptional purity which is bubble-free and fluorescence-free

Due to this ultra-high purity, the Spectrosil® 2000 (deep UV fluorescence free grade) series has excellent optical transmission in the deep UV with a useful range from 180 nm in the deep UV through to 2000 nm in the infrared

TYPICAL PROPERTIES

Viscosity Data

Strain Point	1080°C
Annealing Point	1200°C
Softening Point	1730°C
Max continuous temp	1050°C
Short term temp	1350°C
Thermal ExpansionCoefficient (Average)	0.54 x 10-6 °C (0-600°C)
Refractive Index	ND1.45846 (587.56nm)
Density	2.2x103kg/m3
Mohs Hardness	5.5-6.5
Knoop hardness	5800-6100 (N/mm2)
Young's Modulus	73x10^4 N/mm2
Rigidity Modulus	31x10^4 N/mm2
Bending Strength	65 (N/mm2)
Compressive Strength	72.0x9 N/m2
Tensile Strength	55x106 N/m2
Shear Strength	55x106 N/m2

Note: these values may vary, depending on the thermal history of the glass

Wavelength (nm)Refractive Index

- 3001.488
- 3201.483
- 3401.479
- 3601.475
- 4001.470
- 5001.462

Note: these values may vary, depending on the thermal history of the glass