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### Appearance

Clear spheres, fibers, powder, or bulk glass which exhibit orange fluorescence.

### Chemical Composition

- Silica (SiO<sub>2</sub>)
- Aluminum oxide (Al<sub>2</sub>O<sub>3</sub>)
- Calcium oxide (CaO)
- Magnesium oxide (MgO)
- Sodium oxide (Na<sub>2</sub>O)
- Iron oxide (Fe<sub>2</sub>O<sub>3</sub>)
- Rare earth oxide

### Physical Properties

Specific Gravity	2.84 (g/cm <sup>3</sup> )
Excitation	254 - 365 nm
Emission	Orange
Softening Temperature (T <sub>d</sub> )	625 ± 10 °C
Glass Transition Temperature	574 ± 10 °C
Coefficient of Thermal Expansion	96 ± 10 x 10 <sup>-7</sup> /°C (30 - 300 °C)
Compression Strength	29 kg/mm <sup>2</sup> (41,200 psi)
Vickers Hardness	550 kg/mm <sup>2</sup> (782,000 psi)
Mohs Hardness	6 - 7

### Applications

Typical applications of GL1783 include medical imaging, biomedical diagnostics and research, testing media, tracing and art glass enamels.

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