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Appearance

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

Chemical Composition

Silica (SiO₂)
Aluminum oxide (Al₂O₃)
Calcium oxide (CaO)
Magnesium oxide (MgO)
Sodium oxide (Na₂O)
Iron Oxide (Fe₂O₃)
Rare Earth Oxide

Physical Properties

Specific Gravity	2.79 (g/cm ³)
Excitation	254 - 365 nm
Emission	Red
Softening Temperature (T _d)	619 ± 10 °C
Glass Transition Temperature	560 ± 10 °C
Coefficient of Thermal Expansion	96 ± 10 x 10 ⁻⁷ /°C (30 - 300 °C)
Compression Strength	29 kg/mm ² (41,200 psi)
Vickers Hardness	550 kg/mm ² (782,000 psi)
Mohs Hardness	6-7

Applications

Typical applications of GL1817 include medical imaging, biomedical diagnostics and research, testing media, tracing and art glass enamels.

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