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Appearance

Clear spheres, fibers, powder, or bulk glass which exhibit yellow 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	2.60 (g/cm ³)
Excitation	254 - 365 nm
Emission	Yellow
Softening Temperature (T _d)	605 ± 10 °C
Glass Transition Temperature	550 ± 10 °C
Coefficient of Thermal Expansion	99 ± 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 GL1785 include medical imaging, biomedical diagnostics and research, testing media, tracing and art glass enamels.

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