MO-SCI CORPORATION
mo-sci@mo-sci.com
573-364-2338

Appearance

Glass-ceramic sealing glass white colored in powder form.

Chemical Composition

Silica (SiO_2)

Calcium oxide (CaO)

Magnesium oxide (MgO)

Alumina (Al_2O_3)

Physical Properties

Specific Gravity	2.76 (g/cm^3)
Glass Transition Temperature	724 ± 10 °C
Softening Temperature (T_d)	767 ± 10 °C
Coefficient of Thermal Expansion (annealed)	8.31 x 10^{-6} /°C (50 - 600 °C)
Index of Refraction	1.60

Recommended Firing Conditions

Ramp to 900 - 950 °C and hold for 0.5 to 1 hour.
Heating or cooling rate: 3 to 10 °C/min

Applications

Operational Temperature: up to 1000 °C

The typical application of GL1887 sealing glass is to seal ceramics and metals at high temperatures. Common applications of sealing glass include: solid oxide fuel cells (SOFCs), solar cells, sodium ion batteries, high-temperature sensors, and other sealing, bonding, or coating applications.