

Appearance

Glass-ceramic sealing glass with white color in powder form

Chemical Composition

Silica (SiO₂)

Calcium oxide (CaO)

Magnesium oxide (MgO)

Aluminum oxide (Al₂O₃)

Physical Properties

Specific Gravity	2.41 (g/cm ³)
Crystallization Temperature	1250 ± 10 °C
Coefficient of Thermal Expansion (crystallized)	3.5 x 10 ⁻⁶ /°C (200 - 900 °C)

Recommended Firing Conditions

Ramp to 1250 °C and hold for 30 minutes.
Heating or cooling rate: 3 to 10 °C/min

Applications

Operational Temperature: up to 970 °C

The typical application of GL1850 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.

