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/cm³)
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.