Appearance
Glass-ceramic sealing glass white colored in powder form.

Chemical Composition
Barium oxide (BaO)
Silica (SiO₂)
Calcium oxide (CaO)
Alumina (Al₂O₃)

Physical Properties
Specific Gravity 3.42 (g/cm³)
Glass Transition Temperature 725 ± 10 °C
Crystallization Temperature Value
Softening Temperature (T₂) 762 ± 10 °C
Coefficient of Thermal Expansion 10.3 x 10⁻⁶ /°C (50 - 500 °C)

Recommended Firing Conditions
Ramp to 850 - 925 °C and hold for 1 to 2 hours.
Heating or cooling rate: 3 to 10 °C/min

Applications
Operational Temperature: up to 1000 °C

The typical application of GL1862 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.