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

**Chemical Composition**
- Calcium oxide (CaO)
- Magnesium oxide (MgO)
- Alumina (Al₂O₃)
- Silica (SiO₂)
- Sodium oxide (Na₂O)
- Potassium oxide (K₂O)
- Iron oxide (Fe₂O₃)

**Physical Properties**
- Specific gravity: 2.6 (g/cm³)
- Glass Transition Temperature: 651 ± 10 °C
- Crystallization Temperature: 827 ± 10 °C
- Softening Temperature (T_d): 700 ± 10 °C
- Coefficient of Thermal Expansion:
  - (as-cast glass): 8.3 x 10⁻⁶ /°C (50 - 500 °C)
  - (crystallized): 7.6 x 10⁻⁶ /°C (50 - 500 °C)

**Recommended Firing Conditions**
- Ramp to 800 - 820 °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 GL1873 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.