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

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

**Physical Properties**
- **Specific Gravity**: 3.2 (g/cm³)
- **Softening Temperature (Tₙ)**: 754 ± 10 °C
- **Glass Transition Temperature**: 724 ± 10 °C
- **Crystallization Temperature (DSC)**: 1037 ± 10 °C
- **Coefficient of Thermal Expansion (as-cast glass)**: 9.6 x 10⁻⁶ /°C (50 - 600 °C)
- **Coefficient of Thermal Expansion (crystallized)**: 9.1 x 10⁻⁶ /°C (50 - 900 °C)

**Recommended Firing Conditions**
Ramp to 1020 °C and hold for 0.5 to 1 hour.
Heating or cooling rate: 3 to 10 °C/min.

**Applications**
Operational Temperature: up to 910 °C

The typical application of GL1870 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.