**Appearance**
Glass-ceramic sealing glass light grey colored in powder form

**Chemical Composition**
- Bismuth oxide (Bi₂O₃)
- Zinc oxide (ZnO)
- Boron oxide (B₂O₃)
- Sodium oxide (Na₂O)

**Physical Properties**
- Specific Gravity: 5.6 (g/cm³)
- Glass Transition Temperature: 400 ± 10 °C
- Softening Temperature (Tₛ): 424 ± 10 °C
- Coefficient of Thermal Expansion: 9.4 x 10⁻⁶ /°C (50 - 300 °C)

**Recommended Firing Conditions**
- Ramp to 510°C and hold for 0.5 to 1 hr.
- Heating or cooling rate: 3 to 10 °C/min

**Applications**
Operational Temperature: up to 350 °C

The typical application of GL1846 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.