Appearance
Borosilicate sealing glass white colored in powder form.

Chemical Composition (by weight)
- Silica (SiO2) 65 - 75 %
- Boron oxide (B2O3) 22 - 31 %
- Alumina (Al2O3) 0.8 - 1.2 %
- Sodium oxide (Na2O) 1.6 - 2.3 %
- Lithium oxide (Li2O) 0.4 - 1.0 %

Physical Properties
- Specific Gravity 2.08 (g/cm3)
- Glass Transition Temperature 462 ± 10 °C
- Softening Temperature (Tg) 599 ± 10 °C
- Coefficient of Thermal Expansion 3.49 x 10^-6 /°C (30 - 300 °C)
- Index of Refraction 1.47 (Becke line)

Recommended Firing Conditions
- Ramp to 950 - 970 °C and hold for 0.5 to 1 hour.
- Heating or cooling rate: 3 to 10 °C/min

Applications
Operational Temperature: up to 900 °C

The typical application of GL1883 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.