



Appearance

Sealing glass is white colored and is in powder form.

Chemical Composition

Silica (SiO₂)
Potassium oxide (K₂O)
Sodium oxide (Na₂O)
Titanium dioxide (TiO₂)
Calcium oxide (CaO)
Magnesium oxide (MgO)
Alumina (Al₂O₃)

Physical Properties

Specific Gravity	2.7 (g/cm ³)
Glass Transition Temperature	475 ± 10 °C
Softening Temperature (T _d)	506 ± 10 °C
Coefficient of Thermal Expansion	15.9 x 10 ⁻⁶ /°C (50 - 400 °C)

Recommended Firing Conditions

Ramp to 690 °C and hold for 0.5 to 1 hour
Heating or cooling rate: 3 to 10 °C/min

Applications

Operational Temperature: up to 520 °C

The typical application of GL1886 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.

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