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Appearance

Sealing glass white colored in powder form

Chemical Composition

Sodium oxide (Na₂O)

Potassium oxide (K₂O)

Silica (SiO₂)

Physical Properties

Specific Gravity	2.5 (g/cm ³)
Glass Transition Temperature	425 ± 10 °C
Softening Temperature (T _d)	468 ± 10 °C
Coefficient of Thermal Expansion (annealed glass)	18.8 ± 1 x 10 ⁻⁶ /°C (50 - 400 °C)

Recommended Firing Conditions

Ramp to 550 °C and hold for 30 min.
Heating or cooling rate: 3 to 10 °C/min

Applications

Operational Temperature: up to 400 °C

The typical application of GL1924 sealing glass is to seal high CTE metals. 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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