**Appearance**
Sealing glass light yellow colored in powder form

**Chemical Composition (by weight)**
- Bismuth oxide (Bi$_2$O$_3$) 11.27 - 15.27 %
- Silver oxide (Ag$_2$O) 36.25 - 56.25 %
- Phosphorous oxide (P$_2$O$_5$) 30.48 - 50.48 %

**Physical Properties**
- Specific Gravity 4.4 (g/cm$^3$)
- Glass Transition Temperature 213 ± 10 °C
- Softening Temperature ($T_d$) 230 ± 10 °C
- Crystallization Temperature (DSC) 360 ± 10 °C
- Coefficient of Thermal Expansion 16.7 x 10$^{-6}$ °C$^{-1}$ (40 - 150 °C)

**Recommended Firing Conditions**
- Ramp to between 250 °C and 350 °C and hold for 1 to 2 hours.
- Heating or cooling rate: 3 to 10 °C/min

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

The typical application of GL1728 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.