



Appearance

Glass-ceramic sealing glass with white color in powder form.

Chemical Composition

Lanthanum oxide (La_2O_3)

Alumina (Al_2O_3)

Silica (SiO_2)

Physical Properties

Specific Gravity	2.6 (g/cm^3)
Glass Transition Temperature (DSC)	750 ± 10 °C
Crystallization Temperature (DSC)	1000 - 1200 °C
Softening Temperature (sintered)	> 1200 °C
Coefficient of Thermal Expansion (sintered)	$\sim 6 \times 10^{-6}$ /°C (50 - 1200 °C)

Recommended Firing Conditions

Seal at 1200 °C for 1 - 2 hours, then continue to operational temperatures.

Applications

The typical application of GL1701 is to seal alumina ceramics at high temperatures.