



Mo-Sci Specialty Products, L.L.C.

A Subsidiary of MO-SCI Corporation

4040 HyPoint North

Rolla, MO 65401

Telephone: 573-364-2338

Fax: 573-364-9589

GL1702 DATA SHEET

Appearance

Glass-ceramic sealing glass white colored in powder form

Chemical Composition by Weight Percent (wt %)

Strontium oxide (SrO).....	31.09 - 37.99
Silica (SiO ₂).....	30.52 - 37.30
Zinc oxide (ZnO).....	24.43 - 29.85
Alumina (Al ₂ O ₃)	2.08 - 3.16
Boron oxide (B ₂ O ₃).....	0.79 - 2.79

Physical Properties

Density.....	3.5 g/cm ³
T _g	670 ±10°C
T _c	880 ±10°C
T _d	697 ±10°C
CTE _{50-500°C}	7.9 x 10 ⁻⁶ /°C (as-cast glass)
CTE _{200-900°C}	8.0 x 10 ⁻⁶ /°C (crystallized)

Recommended Firing Conditions

Ramp to 800°C and hold for 2 hours, then ramp to 900°C and hold for 2 hours.

Heating/cooling rate: 3 to 10°C/minute

Applications

To seal ceramics and metals