



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

A Subsidiary of MO-SCI Corporation

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## GL1729 DATA SHEET

### Appearance

Glass-ceramic sealing glass white colored in powder form

### Chemical Composition by Weight Percent (wt %)

Strontium oxide (SrO).....	34.47 - 38.47
Silica (SiO <sub>2</sub> ).....	30.53 - 34.53
Calcium oxide (CaO).....	17.74 - 21.74
Zinc oxide (ZnO).....	3.41 - 5.41
Alumina (Al <sub>2</sub> O <sub>3</sub> ).....	1.76 - 3.76
Titanium oxide (TiO <sub>2</sub> ).....	1.21 - 3.21
Boron oxide (B <sub>2</sub> O <sub>3</sub> ).....	0.88 - 2.88

### Physical Properties

Density.....	3.5 g/ cm <sup>3</sup>
T <sub>g</sub> .....	690 ±10°C
T <sub>c</sub> .....	890 ±10°C
T <sub>d</sub> .....	750 ±10°C
CTE <sub>50-500°C</sub> .....	10.9 x 10 <sup>-6</sup> /°C (as-cast glass)
CTE <sub>50-500°C</sub> .....	11.0 x 10 <sup>-6</sup> /°C (crystallized)

### Recommended Firing Conditions

Ramp to 850°C and hold for 2 hours

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

### Applications

To seal ceramics and metals