



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

A Subsidiary of MO-SCI Corporation

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## GL1742 DATA SHEET

### Appearance

Glass-ceramic sealing glass white colored in powder form

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

Silica (SiO <sub>2</sub> ).....	29.29 - 35.29
Zinc Oxide (ZnO).....	25.07 - 29.07
Alumina (Al <sub>2</sub> O <sub>3</sub> ).....	1.61 - 3.61
Boron oxide (B <sub>2</sub> O <sub>3</sub> ).....	2.56 - 4.56
Strontium oxide (SrO).....	32.47 - 36.47

### Physical Properties

Density.....	3.8 g/cm <sup>3</sup>
T <sub>g</sub> .....	660±10°C
T <sub>c</sub> .....	830±10°C
T <sub>d</sub> .....	693±10°C
CTE <sub>50-500°C</sub> .....	5.5x10 <sup>-6</sup> /°C (crystallized)

### Recommended Firing Conditions

Ramp to 760°C and hold for 2 hours, then ramp to 830°C and hold for 2 hours

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

### Applications

To seal ceramics and metals