



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

A Subsidiary of MO-SCI Corporation

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## GL1724 DATA SHEET

### Appearance

Glass-ceramic sealing glass light gray colored in powder form

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

Bismuth Oxide (Bi <sub>2</sub> O <sub>3</sub> ).....	46 - 52
Silica (SiO <sub>2</sub> ) .....	17 - 23
Boron oxide (B <sub>2</sub> O <sub>3</sub> ).....	15 - 21
Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	2 - 4
Sodium oxide (Na <sub>2</sub> O).....	2 - 4
Potassium oxide (K <sub>2</sub> O).....	2 - 4
Titanium oxide (TiO <sub>2</sub> ).....	2 - 4
Lithium oxide (Li <sub>2</sub> O).....	0.5 - 1.5

### Physical Properties

Density.....	3.7 g/cm <sup>3</sup>
T <sub>g</sub> .....	440 ±10°C
T <sub>c</sub> .....	610 ±10°C
T <sub>d</sub> .....	500 ±10°C
CTE <sub>50-450°C</sub> .....	9.5 x 10 <sup>-6</sup> /°C (crystallized)

### Recommended Firing Conditions

Ramp to between 700°C and 850°C and hold for 2 to 4 hours  
Heating/cooling rate: 3 to 10°C/minute

### Applications

To seal ceramics and metals  
Resistant to alkali