



# 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

## GL1709 DATA SHEET

### Appearance

Compliant (viscous) sealing glass white colored in powder form

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

Boron oxide (B <sub>2</sub> O <sub>3</sub> ).....	32.84 - 40.84
Barium oxide (BaO).....	30.45 - 34.45
Silica (SiO <sub>2</sub> ).....	13.95 - 19.95
Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	6.19 - 8.19
Strontium oxide (SrO).....	3.26 - 5.26
Calcium oxide (CaO).....	1.31 - 3.31

### Physical Properties

Density.....	3.0 g/cm <sup>3</sup>
T <sub>g</sub> .....	604 ±10°C
T <sub>d</sub> .....	655 ±10°C
CTE <sub>50-500°C</sub> ....	7.3 x 10 <sup>-6</sup> /°C

### Recommended Firing Conditions

Ramp to 850°C and hold for 2 to 4 hours

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

### Applications

To seal ceramics and metals