



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

GL1734 DATA SHEET

Appearance

Sealing glass white colored in powder form

Chemical Composition by Weight Percent (wt %)

| | |
|--|---------------|
| Phosphorus oxide (P ₂ O ₅)..... | 44.37 - 50.37 |
| Antimony oxide (Sb ₂ O ₃)..... | 9.83 - 13.83 |
| Barium oxide (BaO) | 9.06 - 13.06 |
| Zinc oxide (ZnO)..... | 8.64 - 12.64 |
| Calcium oxide (CaO)..... | 6.08 - 8.08 |
| Sodium oxide (Na ₂ O)..... | 3.47 - 6.47 |
| Potassium oxide (K ₂ O)..... | 3.25 - 5.25 |
| Lithium oxide (Li ₂ O)..... | 0.89 - 2.89 |
| Alumina (Al ₂ O ₃)..... | 0.34 - 2.34 |
| Boron oxide (B ₂ O ₃)..... | 0.5 - 1.5 |

Physical Properties

| | |
|------------------------------|----------------------------|
| Density..... | 3.2 g/cm ³ |
| T _g | 370 ±10°C |
| T _c | 620 ±10°C |
| T _d | 408 ±10°C |
| CTE _{40-320°C} | 14.5 x10 ⁻⁶ /°C |

Recommended Firing Conditions

Ramp to between 500°C and 550°C and hold for 1 to 2 hours
Heating/ cooling rate: 3 to 10°C/minute

Applications

To seal ceramics and metals