



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

A Subsidiary of MO-SCI Corporation

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GL1497 DATA SHEET

Appearance

Glass-ceramic sealing glass brown colored in powder form

Chemical Composition by Weight Percent (wt %)

Strontium oxide (SrO).....32.68 - 36.68
Silica (SiO₂)..... 30.52 - 36.52
Calcium oxide (CaO).....16.77 - 20.77
Alumina (Al₂O₃) 1.84 - 3.84
Boron oxide (B₂O₃)..... 6.77 - 8.77
Manganese oxide (MnO₂)... 1.42 - 3.42

Physical Properties

Density..... 3.3 g/cm³
T_g 640 ±10°C
T_c 830 ±10°C
T_d.....718 ±10°C
CTE_{50-500°C}..... 9.6 x 10⁻⁶/°C (as-cast glass)
CTE_{50-500°C}.....10.0 x 10⁻⁶/°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/min.

Applications

To seal ceramics and metals