



# 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

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# GL-0252

## DATA SHEET

### Appearance

Solid soda-lime glass microspheres with light blue color in powder form.

### Chemical Composition (by weight)

Silica (SiO <sub>2</sub> ) .....	60~70%
Aluminum oxide (Al <sub>2</sub> O <sub>3</sub> ) .....	1~3 %
Calcium oxide (CaO) .....	9~10%
Magnesium oxide (MgO) .....	1~3 %
Sodium oxide (Na <sub>2</sub> O) .....	10~15%
Iron oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	3~5 %
Cobalt oxide (Co <sub>3</sub> O <sub>4</sub> ) .....	6~8 %

### Physical Properties

Specific Gravity .....	2.5 (g/cm <sup>3</sup> )
Bulk Density of Dry Beads .....	1.3 g per cm <sup>3</sup> (77 lbs/ft <sup>3</sup> )
pH in water @ 25°C .....	7.8
Softening Temperature .....	650°C
Coefficient of Thermal Expansion...	90 x 10 <sup>-7</sup> /°C (30-300° C)
Compression Strength .....	29 kg/mm <sup>2</sup> (39,875 psi)
Vicker Hardness .....	550 kg.mm <sup>2</sup> (756,250 psi)

### Applications

Typical applications of GL-0252 glass microspheres include: spacer for gauge control, thermal expansion reduction filler for adhesives and polymers, plus they have the advantage of being colored for visualization.

