



MO-SCI Specialty Products, L.L.C.

A Subsidiary of MO-SCI Corporation

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GL-0191-S DATA SHEET

Appearance

Solid soda-lime glass microspheres that appear colorless.

Chemical Composition (by weight)

Silica (SiO ₂)	69~72%
Aluminum oxide (Al ₂ O ₃)	1~4%
Calcium oxide (CaO)	9~12%
Magnesium oxide (MgO)	1~3%
Sodium oxide (Na ₂ O).....	13~17%
Iron Oxide (Fe ₂ O ₃)	<0.3%

Physical Properties

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

Size Ranges Available

Size in (mm)	
0.6-1.0	1.5-2.0
0.8-1.2	1.7-2.5
1.0-1.5	2.5-3.5

Applications

Typical applications of GL0191 glass microspheres include: grinding, mixing media, filter aids, filter media, and thermal expansion reduction filler for adhesives and polymers.