



### Appearance

Solid Barium Titanate glass microspheres are light yellow in color and in powder form.

### Chemical Composition (by weight)

Silica (SiO <sub>2</sub> )	1 - 20 %
Boron oxide (B <sub>2</sub> O <sub>3</sub> )	1 - 20 %
Zirconium dioxide (ZrO <sub>2</sub> )	1 - 10 %
Barium oxide (BaO)	40 - 70 %
Titanium dioxide (TiO <sub>2</sub> )	40 - 70 %

### Physical Properties

Specific Gravity	4.2 - 4.5 (g/cm <sup>3</sup> )
Bulk Density of Dry Beads	1.8 g/cm <sup>3</sup> (112 lb/ft <sup>3</sup> )
pH in water @ 25 °C	7.0
Softening Temperature (T <sub>s</sub> )	600 ± 10 °C
Index of Refraction	1.9 (n <sub>D</sub> )

### Applications

Typical applications of GL0175 beads include: high temperature spacer material for gauge control, coating, filler for plastic, retro-reflection applications and etc.

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