



Bead Brite Research

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## Material Safety Data Sheet

### Product and Manufacturer Identification

Product Name: SB25  
Trade Name: Specialized Beads

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### Applications

Micro-sized beads are offered for evaluation in a variety of specialty applications. Some Suggested applications are plastics, coatings, cosmetics, and iol and gas production. The small diameters provide geometrically higher surface area than current products. This enables tighter packaging, higher adsorption, and use in smaller niches.

### Typical Particle size

<u>Distribution (Percentile)</u>	<u>Microns</u>
10	0.1-2
50	4-6
90	15-18

Mean Particle Size: 5 Micron

### Composition (Typical Composition of Standard Glass Beads)

<u>Chemical</u>	<u>% by Weight</u>
SiO <sub>2</sub>	70-75
Na <sub>2</sub> O	12-15
CaO	7-12
MgO	<5
Al <sub>2</sub> O <sub>3</sub>	<2.5
K <sub>2</sub> O	<1.0
Fe <sub>2</sub> O <sub>3</sub>	<0.1

CAS Registry No. 65997-17-3



**Optical Properties**

Color: Glass Beads are high quality, colorless optical crown lenses.

**Weight Properties**

Typical bulk density range is 1.36 g/cm<sup>3</sup> to 1.46 g/cm<sup>3</sup>

**Weatherability**

Weather has no noticeable effect once the surface alkalis are removed as in any soda-lime silica glass. All glasses are affected to some degree by chemical and weathering agents, but in most cases, weathering is minute. The degree of resistance to various agents is proportional to the hardness and/or refractive index. The higher the refractive index, the more susceptible the glass is to the chemical attack.

**Acid Resistance**

5- Micron beads have excellent resistance to the most common acids; exceptions are hydrofluoric acid, which attacks vigorously, and phosphoric acid, which etches them over time.

**Alkali Resistance**

5- Micron beads have fair resistance to mild alkalis, but strong alkali solutions, especially when hot, will etch the surface

NOTE: Soda Lime plate glass is used in the manufacture of glass beads. The composition of this material is an amorphous fusion of these oxides and is not crystalline types of free oxides (silica). Therefore, no danger of silicosis exists.

**HMIS Hazard Index**

Health.....0  
Flammability.....0  
Reactivity.....0