

# GLASS SPHERES

## For Mixing, Grinding and Dispersing

### GL-0271 E-GLASS SPHERES

#### Characteristics of E-Glass

- Highly abrasion-resistant
- Alkali free
- High compression strength
- Highly spherical

#### Classification

Part Number	Size Range (mm)	Quantity (lb)	Price (\$/lb)
GL0271B/600-1000	0.6-1.0	0-500	7.70
GL0271B/800-1200	0.8-1.2	501-1000	7.35
GL0271B/1000-1500	1.0-1.5	1001-2000	7.25
GL0271B/1500-2000	1.5-2.0	2001-5000	7.00
GL0271B/1700-2500	1.7-2.5	>5000	Quote
GL0271B/2000-2500	2.0-2.5		
GL0271B/2500-3500	2.5-3.5		

#### Applications

Magnetic materials, special paints, ink grinding, dispersants, filter aids, and media.

Use where high abrasion resistance is needed or alkali-release must be avoided.

#### Properties

Item	Properties
Composition	Aluminoborosilicate
Components	SiO <sub>2</sub> , CaO, Al <sub>2</sub> O <sub>3</sub> , B <sub>2</sub> O <sub>3</sub> , MgO
Specific Gravity	2.6
Mechanical properties	
Vickers hardness (kg/mm <sup>2</sup> )	660
Abrasion Index (%)	1
Compressive strength (kg/mm <sup>2</sup> )	39

### GL-0191-S SODA-LIME SPHERES

#### Characteristics of Soda-Lime Glass

- Chemically stable
- Minimum machine wear
- Low cost
- Highly spherical

#### Classification

Part Number	Size Range (mm)	Quantity (lb)	Price (\$/lb)
GL0191SB/600-1000	0.6-1.0	0-500	3.75
GL0191SB/800-1200	0.8-1.2	501-1000	3.55
GL0191SB/1000-1500	1.0-1.5	1001-2000	3.45
GL0191SB/1500-2000	1.5-2.0	2001-5000	2.35
GL0191SB/1700-2500	1.7-2.5	>5000	Quote
GL0191SB/2000-2500	2.0-2.5		
GL0191SB/2500-3500	2.5-3.5		

#### Applications

Paints, inks, pigments, grinding of dyes, dispersants, building decorations, filter aids and media.

Use where low cost and minimum machine wear is required.

#### Properties

Item	Properties
Composition	Soda-lime glass
Components	SiO <sub>2</sub> , CaO, Al <sub>2</sub> O <sub>3</sub> , Na <sub>2</sub> O, K <sub>2</sub> O, MgO
Specific Gravity	2.5
Mechanical properties	
Vickers hardness (kg/mm <sup>2</sup> )	550
Abrasion index (%)	4
Compressive strength (kg/mm <sup>2</sup> )	29



**MO-SCI Specialty Products, L.L.C.**  
4040 HyPoint North  
Rolla, MO 65401

Phone: 573-364-2338

Fax: 573-364-9589

Email: [mo-sci@mo-sci.com](mailto:mo-sci@mo-sci.com)

MO-SCI Specialty Products, L.L.C. has extensive experience in glass spheres and fiber fabrication techniques and in developing glass compositions whose properties are tailor-made to satisfy special applications. Please contact our office at 573-364-2338.