



SiLibeads®

GLASS BEADS

UNPARALLELED QUALITY AND RELIABILITY

SiLibeads technology guarantees glass spheres with shiny, smooth surfaces and no contamination. Beads are air-inclusion free and do not have any devitrification.

SiLibeads®

Glass beads made of soda lime glass (ranging from 0.4 to 11.5 mm)

Typical Applications:

- Grinding pigments for the **paint and printing ink industries**
- Other grinding applications: **magnetic tape coatings, leather finishes, dyes, chalk, clays, chemicals** (cosmetics, pharmaceuticals, etc.)
- Processing of **minerals and agricultural chemicals**



Chemical Composition of SiLibeads in percent

Constituents	0.6 - 3.4 mm
SiO ₂	54,70 %
Al ₂ O ₃	14,50 %
Fe ₂ O ₃	0,30 %
TiO ₂	0,37 %
K ₂ O	0,56 %
Na ₂ O	0,05 %
CaO	22,50 %
MgO	1,33 %
BaO	<0,01 %
ZnO	<0,01 %
SO ₃	<0,01 %
Sb ₂ O ₃	0,03 %
As ₂ O ₃	<0,01 %
B₂O₃	5,45 %
PbO	"free" <0,01 %

Typical Properties of SiLibeads (0.6 to 3.4 mm):

- Controlled chemical composition and physical properties
- Fire-polished, smooth surface
- No air inclusions, no devitrification
- No surface contamination
- Particles with exact spherical shape
- Narrow grain size range
- Low abrasive wear
- High crush resistance

Specific weight	2.57 kg/ltr
Youngs-Module	77 GPa
Hardness according to Mohs	≥ 6
Roundness (ratio of axis)	≥ 95 %
Abrasion after 9 h grinding	23 weight %

SiLibeads solid spheres are available in a variety of narrow grain size ranges. Media sizes range between 0.4 mm and 0.8 mm and are manufactured using specially sorted soda lime glass. Technology guarantees excellent bead roundness. Media in the range of 0.6 mm to 2.4 mm are produced with "virgin glass", using the latest technology. Only pure, constantly controlled raw materials are used. Through homogenizing of the vitreous mass in the furnace and immediate processing into glass beads (including fire-polishing and hardening), the quality of the glass spheres is controlled to assure virtually 100% round spheres. Low abrasive wear, high crush resistance and smooth surfaces are guaranteed.

Larger beads with diameters larger than 2.4 mm are molded with a very high degree of precision.

For additional information, or to place an order, please contact us.



DIVISION OF
**CHICAGO BOILER
COMPANY** SINCE 1891

1300 Northwestern Ave., Gurnee, IL 60031-2348

Phone: (800) 522-7343 (847) 662-4000

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Internet: www.cbmills.com

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SiLibeads



Price List

SL-series Narrow Range Engineered High Quality Solid Glass Spheres

Part Number	Size – mm	% Round	% in Range	Price per pound (55 lb.Pkgs.)...
CMGB-0608-S	0.5 - 0.8	90	80	2.60
CMGB-0810-S	0.8 - 1.0	100	100	2.60
CMGB-1014-S	1.0 - 1.4	100	100	2.60
CMGB-1317-S	1.3 - 1.7	100	100	2.60
CMGB-1820-S	1.7 - 2.1	100	100	2.60
CMGB-2024-S	2.0 - 2.5	100	100	2.60
CMGB-2832-S	2.8 - 3.4	100	100	2.60

For pricing or information on larger size media, please contact us.

"0" Zero % Air inclusions
"0" devitrification

Made from virgin glass – no contamination / no lead
Chemically inert / nontoxic / environmentally preferred

1. Freight: F.O.B. Gurnee, IL
2. Payment terms: NET 30 with approved credit
3. All items can be combined for quantity discount
4. Blanket orders available / consult CB Mills
5. Standard packaging – 55 lb. Boxes
6. Minimum order size – 55 lbs.
7. Available in multiples of 55 lbs.
8. Prices subject to change without notice

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