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# TECHNICAL DATA & PHYSICAL CHARACTERISTICS

## Glass Bead

### Bead Applications

(Cleaning, Finishing, Peening, Deburring)

<b>Dry Blasting:</b>	Excellent	<b>Wet Blasting:</b>	Excellent
<b>Cleaning Speed:</b>	High	<b>Metal Removal:</b>	None/low
<b>Surface Finish:</b>	Diverse Matte	<b>Peening:</b>	Excellent
<b>Depletion Rate:</b>	Low		

### Specifications

<b>Sodium Glass:</b>	Lead-free, hardened	<b>U.S. Mesh Range:</b>	14 to 325 (12 to 30 / Megalux Beads)
<b>Specific Gravity:</b>	2.45 to 2.50 g/cm <sup>3</sup>	<b>Bulk Weight:</b>	Approximately 1.5 kg/l
<b>Hardness (Mohs):</b>	5.5 - 7.0	<b>Toxicity:</b>	None
<b>Color:</b>	Clear/colorless	<b>Configuration*:</b>	Spherical
<b>Contamination:</b>	None	<b>Roundness*:</b>	65 to 90% (90% min. / Megalux Beads)
<b>Crush Resistance**:</b>	25,000 to 30,000 psi (60,000 to 65,000 psi / Megalux Beads)		

\*Spherical configuration and roundness do not apply to blasting granules.

\*\*Crush resistance measured using L/d<sup>3</sup> method.

### Chemical Composition

SiO <sub>2</sub> .....	.min. 65%	CaO .....	.min. 8%
Al <sub>2</sub> O <sub>3</sub> .....	.0.5 to 2.0%	Na <sub>2</sub> O .....	.min. 14%
Fe <sub>2</sub> O <sub>3</sub> .....	.max 0.15%	Other .....	.max. 2%
MgO .....	.min. 2.5%		

### Verifications & Screening

Sieve sizes and standards according to A.S.T.M. norms (ASTM - D - 1155-53). All sizes and general specifications screened to Military Spec. # G-9954A.

Grinding beads - individual measurements are conducted with standard instruments (slide caliper rule of micrometer gauge.)

Note - The consumption of glass microspheres for blasting depends on several factors: blasting machine, grain size, blasting pressure, distance, angle, the state of the surface, base material, discharge losses, and accuracy of separation.

### Disclaimer

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### Silicosis Warning

Breathing dust from silica sand may cause silicosis, a fatal lung disease. Breathing dust during blasting operations may also cause asbestosis and/or other serious or fatal diseases. A NIOSH approved, well-maintained air-supplied respirator should be used by anyone blasting, anyone handling or using the sand and anyone in the area of the dust. Harmful dust can remain suspended in the air for long periods of time after the blasting has ceased causing serious injury or death. Follow all applicable OSHA standards.

