

GLASS BEADS

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For cleaning, peening, finishing, polishing for use on ferrous and non-ferrous metals and alloys hard or soft, plastics, ceramics and the new advanced composite. Glass beads are manufactured from high grade crown glass of soda-lime type containing no less than 62 percent silica. This means NO FREE SILICA; therefore no silicosis
no health hazard !

GLASS BLASTING BEADS GENERAL SPECIFICATIONS

Size Range	In conformance with ASTM D-1212-58 and MIL-G-9954A (1 Nov. 1996) (min. 80% by weight in range on smaller US Sieve ; max. 10% by weight on larger US Sieve).
Specific Gravity	2.45 to 2.55.
Hardness	Rockwell 48-50 c. DPH 50 g load-540 kg/m ²
Roundness	In conformance with ASTM 1155-53 and MIL-G-9954A (min, as designated for each size range specified).
Air Inclusions	Less than 10% of glass beads show air inclusions exceeding more than 25% of their area (tested microscopically while submerged in liquid of 1.5 refracted index)
Broken of Angular Fragments	In conformance with Mil-G-9954A (3.0% max. by count).
Color	No surface film, crystal of clear.
Iron Content	By weight : 0.1% max.
Silica Content	In conformance with ASTM C-169-57T (min. 62% for chemical stability).



GRADATIONS (MIL-G-9954A)

MIL SIZE	SCREEN SIZE	MICROMETER m SIZE	TYLER MESH (STD. DIA)
3	20-30	850-600	0.0328-0.0232
4	30-40	600-425	0.0232-0.0164
5	40-50	425-300	0.0164-0.0116
6	50-70	300-212	0.0116-0.0082
7	60-80	250-180	0.0097-0.069
8	70-100	212-150	0.0082-0.0058
9	80-120	180-125	0.0069-0.0049
10	100-170	150-90	0.0058-0.0035
11	120-200	125-75	0.0049-0.0029
12	140-230	106-63	0.0041-0.0024
13	170-325	90-45	0.0035-0.0017

CHEMICAL ANALYSIS

SiO ₂	65.05%
Na ₂ O	25.42%
CaO	8.02%
K ₂ O	1.21%
Fe ₂ O ₃	0.15%
Al ₂ O ₃	0.075%



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