

REFLECTIVE GLASS BEADS

TRADE NAME

STARBEAD® ROADMARKING

DESCRIPTION

Starbead® Roadmarking Beads are solid, spherical glass beads manufactured according to BS6088, Class B. The high quality glass microspheres are obtained from a specialised process using selected glass culet.

FUNCTION

Starbead® standard glass beads are a major factor in increasing road safety in an economical manner. Thanks to the beads' retro-reflective action at night, a vehicle's headlight beam is returned to the driver's eye. The microspheres not only multiply the visibility of road markings at night, but also increase the marking's durability in general. Starbead® glass beads are used as a drop-on agent and as premix beads for roadmarking materials.

**TYPICAL CHEMICAL ANALYSIS
(full analysis on application)**

SiO ₂	72.55%
Al ₂ O ₃	2.08%
K ₂ O	0.88%
Na ₂ O	13.78%
CaO	7.02%
Fe ₂ O ₃	0.18%
MgO	3.02%

TECHNICAL DATA

Hardness	6-7 Moh scale
Specific weight	2-3
Average bulk density	1.6 kg/l
Free silica	None
Shape	80% round
Reflectivity	Nd ≥ 1.5 for coated and uncoated
Storage	Dry, sheltered storage conditions
Packaging	25 kg bags

SIEVING RANGE



CODE	SIZE RANGE (micron)	PERFORMANCE CHARACTERISTICS
150 – 850 H	>850 – 0% 600-850 – 17.4% 300-600 – 59% 180-300 – 21.5% <180 – 2.1%	COATED - H Higher reflectivity than uncoated. Therefore, best suited to use on high rainfall highway roads.
150 – 850 SP	>850 – 0% 600-850 – 17.4% 300-600 – 59% 180-300 – 21.5% <180 – 2.1%	UNCOATED - SP Increases the visibility of traffic lines / road markings especially at night. Available in various sizes suitable for water based / solvent based road marking paints and thermoplastic material. Can be used in a drop on application or premixed with road marking paint or thermoplastic. Chemically inert and environmentally friendly.
250 – 1200 SP	>1200 – 0% 850-1200 – 4.5% 850-425 – 74.3% 425-300 – 17.9% <300 – 3.3%	UNCOATED - SP Specifically suited for thermoplastic application. Larger beads will increase reflectivity.