

Technical Data Sheet Commercial Glass Bead

Trade Name: Beadomac
Original Issue Date: February 2011 (by Mac'Ants)
This Issue: November 2022

SECTION 1 Chemical Analysis

A range of prime commercial soda lime glass beads, noted for their spherical characteristic and consistent size distribution. Manufactured to BS6088 offering a broad range of standard industrial sizes. The use of glass beads in surface finishing applications imparts a peening/ polished finish to metal components and is also utilised for its reflective ability in road marking and as a flow agent and functional filler in polymer manufacture among a myriad of other applications.

Chemical Analysis	Chemical Formula	Typical Content %
Silicon Dioxide (amorphous)	SiO ²	73
Sodium Oxide	Na ² O	15
Calcium Oxide	CaO	7
Magnesium Oxide	MgO	4
Aluminium Oxide	Al ² O ³	1

SECTION 2 Physical Properties

Shape	Spherical
Colour	Clear/white
Specific Gravity	2.55 g/cc
Bulk Density	1.5 g/cc
Hardness	5 moh
Packaging	25kg paper sacks

SECTION 3 Particle Size Distribution

Grade	Bead dia. microns	Bead dia, inches	US Standard Mesh
GBBT3	840-590	.0331-.0234	20-36
GBBT4	590-420	.0234-.0165	30-40
GBBOL21	420-250	.0165-.0098	40-60
GBBOL23	297-177	.0117-.0070	50-80
GBBOL24	250-149	.0098-.0059	60-100
GBBOL25	210-105	.0083-.0041	70-140
GBBOL26	149-74	.0059-.0029	100-200
GBBOL27	105-53	.0041-.0021	140-270
GBBT13	88-44	.0035-.0017	170-325
GBBOL30	62-30	.0017 and finer	270-500

SECTION 4 Compliance

This product is exempt from registration under REACH regulations. See SDS 40 on our web site.

Special Precautions -In use, protection is required to meet threshold limit values for general dusts of 10 mg/m³ (for total inhalable dust) and 5 mg/m³ (respirable dust). The user must establish any hazards present in the surface coatings being removed, which may reduce the occupational exposure standard (O.E.S.).

SECTION 5 Disposal

The product must be disposed of in accordance with national legislation (See Section 16) and local regulations. The material as supplied is classed as a non-hazardous inert solid waste. Spent abrasive used as a blasting medium must be disposed of under classification 12 01 16 (waste blasting material containing dangerous substances) or 12 01 17 (waste blasting material other than those mentioned in 12 01 16). The waste producer must determine if hazardous substances in the coating being removed are likely to cause the waste to be hazardous.

SECTION 6 Handling and Storage

Load per pallet should not exceed 1 tonne and the pallets should not be stacked more than two high. Material should be kept dry.