



Glass Microspheres

CAS No.: 65997-17-3

DESCRIPTION

Glass Microspheres are lightweight, cream-white granules produced from expanded glass, designed to enhance performance across a range of coatings, sealants, grouts, and construction materials. Their low bulk density, thermal insulation properties, compressive strength, and resistance to freeze-thaw cycles make them highly suitable for demanding industrial and architectural applications. Available in six controlled particle size ranges, the spherical shape aids in flow, application consistency, and surface finish in formulated systems.

KEY FEATURES

- Low density for lightweight formulations
- Excellent thermal insulation performance
- Good compressive strength across all grades
- High freeze-thaw durability
- Chemically inert, non-flammable, and non-toxic
- Neutral pH (9–11) with low moisture content
- Sourced from recycled glass

APPLICATIONS

Ideal for use in architectural coatings, lightweight plasters and mortars, insulating grouts, cementitious fillers, and decorative or functional surface textures.

TYPICAL SPECIFICATIONS

Grade (mm)	Bulk Density (kg/m ³)	Bulk Density (Mg/m ³)	Compressive Strength (MPa)	Thermal Conductivity (W/m.K)	Water Absorption (% mass)
0.1–0.3	400	0.57	4.0	-	18 (15.3–20.7)
0.25–0.5	340	0.52	2.5	0.0767	20 (17–23)
0.5–1	270	0.42	1.7	0.0713	18 (15.3–20.7)
1–2	230	0.37	2.0	0.0663	18 (15.3–20.7)
2–4	200	0.34	1.4	0.0639	15 (12.75–17.25)
4–8	190	0.25	1.2	0.0661	10 (8.5–11.5)

Other properties: pH 9–11, moisture content <0.5%, softening point approx. 700 °C, acid soluble sulphates ~0.07%, total sulphur ~0.03%





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This document is subject to revision without notice as new data becomes available.

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PACKAGING

- 20 kg bags
- 600 kg or 1,000 kg bulk bags
- Custom packaging available upon request.

STORAGE

Store in a dry, enclosed area away from direct sunlight and moisture. Reseal partial bags to maintain product integrity.

SAFETY

Non-toxic and non-hazardous. Use standard dust protection during handling. For detailed information, refer to the Safety Data Sheet (SDS).