



# Glass Microspheres

## Expanded Glass Granules

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

## APPLICATION

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

## PRODUCT SPECIFICATIONS

| Grade (mm) | Bulk Density (kg/m <sup>3</sup> ) | Particle Density (Mg/m <sup>3</sup> ) | 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%*



**LIMITED WARRANTY INFORMATION.**  
**PLEASE READ CAREFULLY.**

Chemport Pty Ltd provides the information contained in this document in good faith based on the best knowledge available at the time of publication. While we believe the information to be accurate and reliable, it is intended for general guidance only and is provided without warranty of any kind, express or implied.

Users are solely responsible for determining the suitability of this product for their specific application and for ensuring compliance with all relevant regulations, industry standards, and intellectual property rights. The product must not be used in violation of any law, statute, or third-party rights.

Chemport Pty Ltd shall not be liable for any direct, indirect, or consequential loss or damage arising from the use of this product or reliance on the information provided in this document. Users should refer to the current Safety Data Sheet (SDS) and perform their own evaluations, including any necessary testing, to confirm the product's suitability for use in their particular conditions.

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

**TECHNICAL SUPPORT**  
+61294103317  
info@chemport.com.au

Level 9 Tower A  
821 Pacific Highway  
Chatswood NSW 2067  
Australia



chemport.com.au

**PACKAGING**

Available in:

- 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).