Omyasphere 900

Hollow glass microspheres



Perfect spheres for **high end** applications

THINKING OF TOMORROW

Omyasphere 900

Hollow glass microspheres



Engineered to meet the lightweighting requirements of the construction and polymer industries. Omyasphere 900 are hollow glass microspheres, derived from soda lime borosilicate glass, which are chemically inert and water-resistant. They are spherical and hermetic microspheres with low density, high compressive strength and high brightness.

Lightweight yet remarkably robust, Omyasphere 900 finds value in a diverse array of applications, including:

- **Lightweight plastics** such as SMC, BMC, RIM, pultrusion and injection molded parts, deep-sea applications including pipe insulation and buoyancy modules.
- **Construction applications** such as paints & coatings, adhesives & sealants, and other building refurbishment & finishing applications.

The power of light materials

Hollow glass microspheres have become more widely adopted and appreciated in the construction and polymer industries, driven by the demand for more efficient and sustainable lightweight end products. Omyasphere not only helps reduce weight, but they can also make product application easier, lower transportation costs, and improve performance.

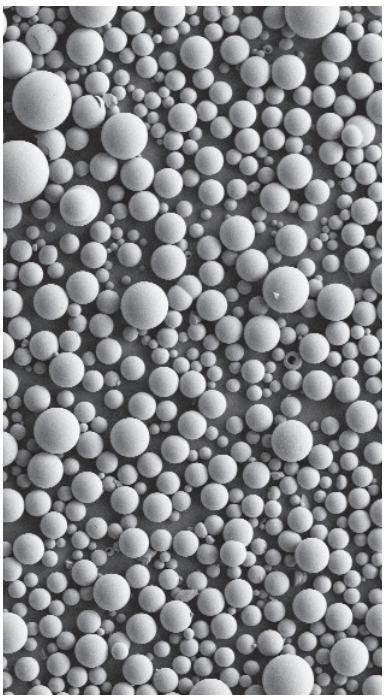


Why choose Omyasphere

- ✓ Weight reduction
- ✓ Higher yield
- ✓ Dimensional stability
- ✓ Thermal insulation
- ✓ Workability and sustainability
- ✓ Sound deadening
- ✓ Total system cost savings

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Hollow glass microspheres



LWF based on **single cell** - hollow glass microspheres →	Excellent **compressive strength**. Resistant to **high pressures and harsh** processing
Spherical morphology →	Outstanding **rheological** properties. Enhanced **surface** properties
Low effective density →	**Outstanding strength-to-weight ratio** → lightweighting benefits
Hermetic cell →	Low **binder demand** and water absorption. High **stability** over time. Reduced **viscosity build-up**
High **brightness** →	Enhanced **white appearance**. Improved finishing / **aesthetics properties**

Omyasphere 900: grade selection

Product properties for selected key grades for construction and polymer applications are given in the following table. Additional products, for specific requirements, are available upon request.

Properties	True Density (g/cm^3)	Bulk Density (g/cm^3)	Compressive Strength (MPa/psi)	Particle Size D50 (µm)	Particle Size D90 (µm)
Omyasphere 915-CNZ	0.15	0.09	4/500	85	120
Omyasphere 920-CNZ	0.20	0.11	4/500	65	110
Omyasphere 922 S-CNZ	0.22	0.12	8/1200	45	70
Omyasphere 925-CNZ	0.25	0.14	5/750	65	100
Omyasphere 928 S-CNZ	0.28	0.16	28/4000	45	65
Omyasphere 932-CNZ	0.32	0.18	14/2000	45	80
Omyasphere 938-CNZ	0.38	0.21	38/5500	40	65
Omyasphere 938 S-CNZ	0.38	0.21	38/5500	30	50
Omyasphere 942 S-CNZ	0.42	0.23	55/8000	25	40
Omyasphere 946-CNZ	0.46	0.25	41/6000	40	70
Omyasphere 960-CNZ	0.60	0.32	83/12000	40	65
Omyasphere 960 S-CNZ	0.60	0.32	124/18000	35	55
Omyasphere 960 SH-CNZ	0.60	0.31	193/28000	16	25

For each construction application, an Omyasphere solution

Omyasphere hollow glass microspheres have been specifically developed to boost the products used by professionals in the construction industry from all over the world. Choose your Omyasphere grade according to your application!

Applications	Spackles / Putties / Smoothing Compounds	Acrylic Plasters	Anti-condensation Paints / Acoustic Paints	Comfort Paints	Deco Paints	Elastomeric Roof Coating	Adhesives & Sealants
Omyasphere 915-CNZ	●	●	●	●			
Omyasphere 920-CNZ	●	●	●	●			
Omyasphere 925-CNZ	●	●	●	●			
Omyasphere 938-CNZ					●	●	●
Omyasphere 922 S-CNZ	○	○	●	●	●	●	●
Omyasphere 928 S-CNZ	○	○		○	○	○	●
Omyasphere 938 S-CNZ				○	○	○	●
Omyasphere 942 S-CNZ				○	○	○	

● Suitable ○ Suitable when spray applied













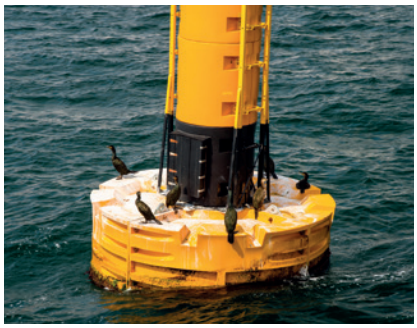
For each polymer application, an Omyasphere solution

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Choose your Omyasphere grade according to your application!

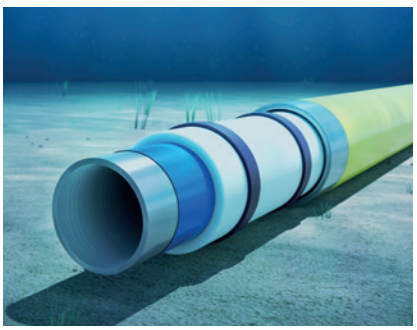
Applications	Bowling Ball	Cast Polyester	Potting Compounds	Tooling Boards	Putties	Sheet Molding Compound (SMC)	Compounding	Injection	Extrusion	Deep Sea Pipe Insulation	Pultrusion	Sprayable Syntactic Foam	Buoyancy	Spray Lay Up	Thermoplastics	Elastomers	Rubber	Shoe Material	Sensitizer for Bulk & Packaged Emulsion
Omyasphere 915-CNZ	●	●	●	●	●					●									●
Omyasphere 920-CNZ																			●
Omyasphere 932-CNZ																			●
Omyasphere 938-CNZ																			●
Omyasphere 960-CNZ							●	●											
Omyasphere 922 S-CNZ	●	●	●	●									●						●
Omyasphere 928 S-CNZ																			●
Omyasphere 938 S-CNZ						●	●	●		●	●	●	●	●	●	●			
Omyasphere 942 S-CNZ								●	●								●	●	
Omyasphere 960 S-CNZ							●	●											
Omyasphere 960 SH-CNZ							●	●	●										

● Suitable







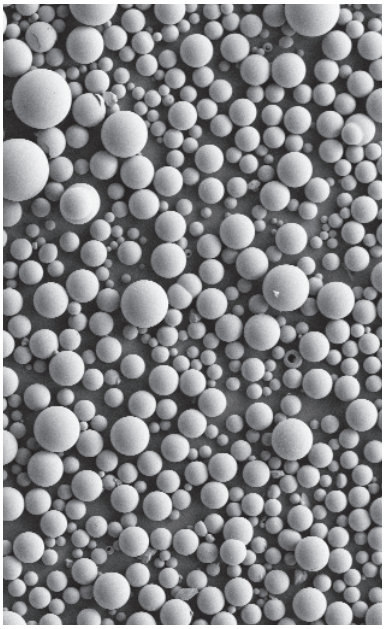






Omyasphere 9W00

Solid glass microspheres

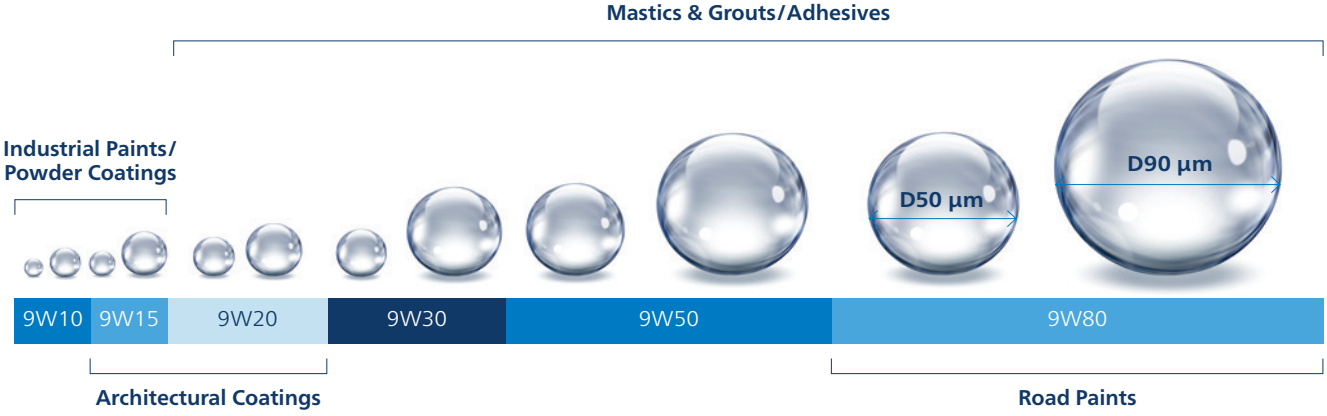


Spherical morphology	Allows higher filler loading and lower resin demand. Reduced viscosity buid-up.
High brightness	Enhanced white appearance. Improved aesthetics/ finishing properties.
Strong beads	Translates to excellent wet scrub, burnish, and abrasion resistance.
Low oil absorption	Lower resin demand and increased cost savings.

Omyasphere 9W00: grade selection

Complementary to our hollow glass portfolio are our calcium aluminosilicate solid glass beads with spherical shape and low oil absorption. Product properties for selected key grades for construction applications are given in the following table.

Properties	Bulk Density (g/cm^3)	True Density (g/cm^3)	Oil Absorption (g/100g)	Particle Size		Brightness L*
				D50 (µm)	D90 (µm)	
Omyasphere 9W10	1.2	2.6	15	6	10	92
Omyasphere 9W15	1.3	2.6	13	9	15	91
Omyasphere 9W20	1.3	2.6	13	12	20	87
Omyasphere 9W30	1.3	2.6	13	17	30	87
Omyasphere 9W50	1.4	2.6	12	32	50	83
Omyasphere 9W80	1.4	2.6	10	35	80	81



One product range, countless solutions

Mirroring the variety of the construction and polymer markets, Omyasphere solutions can offer the best support for your applications and project requirements. We provide technical advice to customers worldwide to support the incorporation of Omyasphere into your product formulation and to achieve the related benefits.

A global supply reliability:
Omyasphere portfolio is reliably available around the world, sourced through our strong, experienced supply chain with efficient logistics available from our regional warehouse network.



Get in touch

All information about the Omyasphere series are available and can be shared upon request to: lightweightfillers@omya.com

They include guidance for:

- Unloading, conveying and dosing instructions from bulk, big-bags, paper-bags and carton boxes,
- Mixing and processing Omyaspheres into specific applications.

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Source: Omya International (2026/05)