

PERLITE MICROSPHERES

A One in a Million Mineral

Perlite Microspheres are a very cost-effective, density-reducing filler for water- or resin-based applications. A single gram of perlite microspheres can contain millions of particles!

Perlite Microspheres are available in grades ranging from 40um to over 300um – with or without surface coatings.

The benefits of using Perlite Microspheres as a functional filler include:

- Reduces weight and shrinkage of product
- Improves sandability
- Improves rheology
- Not hollow
- Absorbs water on the surface, but water will not penetrate the sphere

Available Microsphere Grades

Series	Products	Bulk Density (Dry), Lbs./ft ³	Max. Wt. % Retained	Particle Size
WP100	100, 110, 120, 125	4.0 - 6.0	>50%	100 - 300
WP200	200, 210, 220, 225	4.0 - 8.0	>25%	90 - 200
WP900	900, 910, 920, 925	6.0 - 8.0	<3%	60 - 80
WP1500	1500, 1510, 1520, 1525	6.5 - 8.5	<2%	60 - 70
WP2000	2000, 2010, 2020, 2025	7.0 - 9.0	<1%	50 - 60
WP2300	2300, 2310, 2320, 2325	8.0 - 13.0	<1%	40 - 45

Products	Available Coatings
WP100, 200, 900, 1500, 2000, 2300	Uncoated
WP110, 210, 910, 1510, 2010, 2310	Silane
WP120, 220, 920, 1520, 2020, 2320	Siloxane
WP125, 225, 925, 1525, 2025, 2325	Cyclo-siloxane

Common Applications

- Cement additives
- Caulk
- Joint compound
- Marine putty
- Paints
- Plastics
- Prime paints
- Resins
- Grout
- Flooring compounds
- Automotive putty
- Composites
- Coatings
- Top coats
- Thermoplastics
- Cosmetics

Chemical Composition

- 70-80% SiO₂
- 10-15% Al₂O₃
- 2-6% Na₂O
- 0-3% K₂O
- 0-3% SO₃
- 0-5% other trace inorganic minerals

