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C-46 Glass Bubble Microspheres

Typical Properties of C-46 Microspheres

CenoStar **C-46** Grade Microspheres are high performance hollow soda lime borosilicate glass bubbles. They are ultra-light inorganic, non-metallic, extremely low-density functional filler that enhance final product properties. These hydrophobic spheres have a wide range of formulations.

CenoStar **C-46** Microspheres present the following advantages: high filler loading, lower viscosity, reduce shrinking & wrapping, highly adaptable to manufacturing processes, cost effective/unit value, chemical stability, thermal/ acoustic insulation, sandability, reduced resin demand, Temp resistance to 1205°C

Applications include:

- Paints and Coatings,
- Syntactic Foam
- Cosmetics
- Resin Systems
- Buoyancy
- Explosives
- Automotive
- Building Products

Appearance, color	White
Particle Size Range, microns by volume	2 - 85 µm
10%	22 µm
50%	45 µm
90%	65 µm
d50	~ 36 µm
Floating ratio	~95%
True Density (g/cm ³)	<0.47 Average 0.46
Bulk Density (g/cm ³)	0.30
Compressive Strength	90% survival @ 5511psi / 38 MPa
Softening Point	625°C
Oil absorption (g/cm ³)	0.2-0.65
pH value	8-9.5
Silica Content Silica SiO ₂ (%)	68-75
Aluminum Oxide Al ₂ O ₃ (%)	2-3
Thermal Conductivity (W/m "k"@18°C)	0.0777 W/m k

Packaging:

CenoStar **C-46** Microspheres are supplied in plastic bags placed in cardboard boxes

Safety Information:

In dusty areas, the use of a NIOSH approved respirator is recommended. Material Safety Data Sheets (MSDS) are available upon request

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