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## C-32 Glass Bubble Microspheres

### Typical Properties of C-32 Microspheres

CenoStar **C-32** 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-32** 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 - 120 µm
10%	30 µm
50%	56 µm
90%	74 µm
d50	~ 47 µm
Floating ratio	~96%
True Density (g/cm <sup>3</sup> )	<0.33 Average 0.32
Bulk Density (g/cm <sup>3</sup> )	0.20
Compressive Strength	90% survival @ 1740psi / 12MPa
Softening Point	625°C
Oil absorption (g/cm <sup>3</sup> )	0.2-0.65
pH value	8-9.5
Silica Content Silica SiO <sub>2</sub> (%)	68-75
Aluminum Oxide Al <sub>2</sub> O <sub>3</sub> (%)	2-3
Thermal Conductivity (W/m "k"@18°C)	0.0535 W/m k

#### Packaging:

CenoStar **C-32** 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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