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## C-15 Glass Bubble Microspheres

### Typical Properties of C-15 Microspheres

CenoStar **C-15** 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-15** Microspheres present the following advantages: high filler loading, lower viscosity, reduce shrinking & wrapping, highly adaptable to manufacturing processes, cost effective per unit value, chemical stability, thermal/acoustic insulation, sandability

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 - 160 $\mu\text{m}$
Floating ratio	~95%
True Density ( $\text{g}/\text{cm}^3$ )	0.14-0.17
Bulk Density ( $\text{g}/\text{cm}^3$ )	0.08-.0.10
Compressive Strength	90% survival @ 300psi / 4MPa
Softening Point	625 $^{\circ}\text{c}$
Oil absorption ( $\text{g}/\text{cm}^3$ )	0.2-0.65
refractive index	1.51-1.53
pH value	7-9
Silica Content Silica SiO <sub>2</sub> (%)	68-75
Aluminum Oxide Al <sub>2</sub> O <sub>3</sub> (%)	2-3

#### Packaging:

CenoStar **C-15** Microspheres are supplied in plastic bags placed in cardboard boxes.  
Box Size: 11kg (50x50x50cm)  
3872kg in 40 FCL

#### 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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