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## C-20 Glass Bubble Microspheres

### Typical Properties of C-20 Microspheres

CenoStar **C-20** 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-20** 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

Appearance, color	White
Particle Size Range, microns by volume	2 - 120 $\mu\text{m}$
10%	32 $\mu\text{m}$
50%	68 $\mu\text{m}$
90%	106 $\mu\text{m}$
d50	$\sim 70 \mu\text{m}$
Floating ratio	$\sim 95\%$
True Density ( $\text{g}/\text{cm}^3$ )	0.18-0.22
Bulk Density ( $\text{g}/\text{cm}^3$ )	0.13
Compressive Strength	90% survival @ 550psi / 4MPa
Softening Point	625 $^{\circ}\text{C}$
Oil absorption ( $\text{g}/\text{cm}^3$ )	0.2-0.65
pH value	8-9.5
Silica Content Silica $\text{SiO}_2$ (%)	68-75
Aluminum Oxide $\text{Al}_2\text{O}_3$ (%)	2-3
Thermal Conductivity ( $\text{W}/\text{m}^{\circ}\text{K}$ @18 $^{\circ}\text{C}$ )	0.0503 $\text{W}/\text{m}^{\circ}\text{K}$

Applications include:

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

#### Packaging:

CenoStar **C-20** Microspheres are supplied in plastic bags placed in cardboard boxes.  
Box Size: 15kg (50x50x50cm)  
Big Bag: 300kg (89x89x220cm)

#### 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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