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## C-25 Glass Bubble Microspheres

### Typical Properties of C-25 Microspheres

CenoStar **C-25** 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-25** 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

#### Packaging:

CenoStar **C-25** 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

|   |                              |
|---|------------------------------|
| Appearance, color                                 | White                        |
| Particle Size Range, microns by volume            | 10 - 125 $\mu$ m             |
| 10%   | 30 $\mu$ m                   |
| 50%   | 60 $\mu$ m                   |
| 90%   | 100 $\mu$ m                  |
| d50   | ~ 66 $\mu$ m                 |
| Floating ratio                                    | ~97%                         |
| True Density (g/cm <sup>3</sup> )                 | 0.25                         |
| Bulk Density (g/cm <sup>3</sup> )                 | 0.15                         |
| Compressive Strength                              | 90% survival @ 725psi / 5MPa |
| Softening Point                                   | 625 $^{\circ}$ 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 $^{\circ}$ C)    | 0.0512 W/m k                 |

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