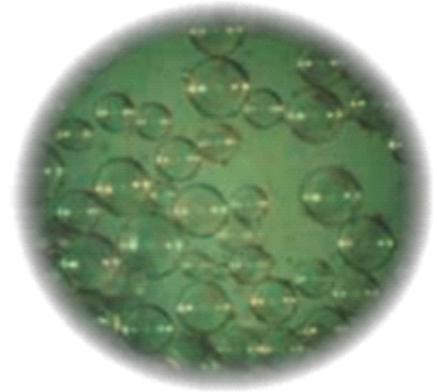


## Micro-Ballon Glass Bubbles white

Lightweight hollow microspheres offer latitude in manufacturing low density products. These single cell hollow microspheres appear as a white free flowing powder. The spheres are hydrophobic in nature. As filler, the primary function is to reduce resin usage and density but can enhance other properties as well.



### Product Designation:

|                                  |  |           |
|----------------------------------|--|-----------|
| Appearance:                      | Free-Flowing White Powder                  |           |
| Physical Form:                   | Hollow non-porous microspheres             |           |
| Composition:                     | CAS Nummer EINECS-Nr. / REACH-Registration |           |
| Amorphes Natriumborsilikat:      | 50815-87-7                                 | -         |
| Synthetisch amorphe Kieselsäure: | 7631-86-9                                  | 231-545-5 |

### Typical Properties:

|  |                    |                                       |
|--|--------------------|---------------------------------------|
| True Density <sup>2</sup> (g/cm <sup>3</sup> ):          | 0.22 ± 0.03        |                                       |
| Effektive Dichte <sup>3</sup> (g/cm <sup>3</sup> ):      | 0.19 ± 0.03        |                                       |
| Bulk Density <sup>4</sup> Untamped (g/cm <sup>3</sup> ): | 0.21               | Gas Pycnometer (ASTM D2840)           |
| Max Particle Size D90 (µm):                              | < 150              |                                       |
| Mean Particle Size (µm):                                 | < 80               | Malvern Particle Size Analyser        |
| Festigkeit in % Volumenverlust:                          | 500 psi // 3.4 Mpa | Isostatic N <sub>2</sub> Gas pressure |
| Colour:  | White              | Hunterlab Colorimeter                 |
| Alkalinity:  | Low Alkali Leach   |                                       |
| Heat Capacity Kj.Kg.°C:                                  | 1                  |                                       |
| Thermal Conductivity 21°C:                               | 0.056 (W/m.K)      |                                       |

1 Typical values, not for specification purposes

2 True Density is the particle density as measured by Gas Displacement

3 Effective Density is the particle density as measured by liquid displacement

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