

## CAM-Spheres 500-HG Specification

Version 4.0 - July 2023

**Product:** Light grey alumino-silicate cenospheres

**Chemical composition:**

|                                | Typical Value | Range      |
|--------------------------------|---------------|------------|
| Al <sub>2</sub> O <sub>3</sub> | 34.5%         | 32 - 37%   |
| SiO <sub>2</sub>               | 56.0%         | 54 - 60%   |
| Fe <sub>2</sub> O <sub>3</sub> | 2.0%          | 1.5 - 3.5% |
| MnO                            | 0.1%          | 0.1 - 0.5% |
| MgO                            | 0.5%          | 0.5 - 1.0% |
| Na <sub>2</sub> O              | 0.5%          | 0.3 - 1.0% |
| TiO <sub>2</sub>               | 1.1%          | 0.5 - 2.0% |
| CaO                            | 1.2%          | 0.8 - 2.0% |

**Physical properties:**

|                  | Unit              | Range       |
|------------------|-------------------|-------------|
| Bulk weight      | g/cm <sup>3</sup> | 0.36 - 0.46 |
| Specific gravity | g/cm <sup>3</sup> | 0.80 - 0.95 |
| Sinkers          | %                 | < 6         |
| Melting point    | °C                | 1450 - 1600 |
| Moisture content | %                 | < 0.3       |
| Color            |                   | light grey  |
| pH               |                   | 7.0 - 9.9   |
| LOI              | %                 | ≤ 1.2       |

**Particle size distribution:**

| Size in µm | Average, % | Maximum, up to % |
|------------|------------|------------------|
| > 750      | 0          | 0                |
| 500 - 750  | 0          | 3                |
| 300 - 500  | 3          | 15               |
| 150 - 300  | 30         | 70               |
| 63 - 150   | 55         | 70               |
| < 63       | 10         | 15               |

**Packaging:**

- Big bags of 500kg with plastic liner, 2 bags stacked per pallet
- Paper bags of 20kg net, on pallets