GNPGraystar
Specialty Materials
AN ISO 9001 CERTIFIED COMPANY

# TECHNICAL DATA SHEET
## Spherical Fused Silica

### Typical Chemistry

| | |
|---|---|
| $SiO_2$ | ≥ 99.3 % |
| $Fe_2O_3$ | ≤ 100 ppm |
| $TiO_2$ | ≤ 80 ppm |
| $Al_2O_3$ | ≤ 1500 ppm |
| CaO | ≤ 80 ppm |
| MgO | ≤ 80 ppm |
| $Na_2O$ | ≤ 100 ppm |
| $K_2O$ | ≤ 80 ppm |

### Ion Content

| | |
|---|---|
| $Na^+$ | ≤ 5 ppm |
| $Cl^-$ | ≤ 5 ppm |
| $Fe^{++}$ | ≤ 15 ppm |

### Physical Specifications:

| | |
|---|---|
| Sphericity | ≥ 91 % |
| Loss on Ignition | ≤ 0.1 % |
| True Density (g/cm$^3$) | 2.20 ± 0.05 |

### *Description:*

**GNP**Graystar's Spherical Fused Silica Powder has a high rate of spericity, high purity, and consistent sizing for high-performance applications.

### *Applications:*

**GNP**Graystar's Spherical Fused Silica Powder is widely used in various industries such as encapsulation of electronic products and chip material, fiber optic cable, special engineering plastics, rubber, cermic, filler for heat dissipation board (MC board), heat dissipating grease, ink, chemical industry, and many other applications.

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### Particle Size:

| | SSF-002 | SSF-005 | SSF-007 | SSF-010 | SSF-020 | SSF-040 |
|---|---|---|---|---|---|---|
| d50 µm | 2 ± 1 | 5 ± 1 | 7 ± 2 | 10 ± 2 | 20 ± 3 | 35 ± 5 |
| Cut Point | 30 µm | 30 µm | 45 µm | 53 µm | 75 µm | 90 µm |

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