



# GNP Graystar

Specialty Materials

AN ISO 9001 CERTIFIED COMPANY



## TECHNICAL DATA SHEET

### Spherical Alumina Powders

#### Typical Chemistry

Aluminum Oxide (Al <sub>3</sub> O <sub>3</sub> )	≥ 99.8 %
Silicon Dioxide (SiO <sub>2</sub> )	0.05 %
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	0.02 %
Sodium Oxide (Na <sub>2</sub> O)	0.02 %
Sodium Ion (Na <sup>+</sup> )	50 ppm

#### Physical Characteristics

Appearance:	White Powder
Whiteness:	90
Specific Gravity:	3.80 g/cm <sup>3</sup>
Loss on Ignition (LOI):	≤ 0.10 %
Electrical Conductivity:	10 μS/cm
Spherical Particles Ratio:	≥ 93 %

#### Typical Sizing Specifications

Product	d50 (μm)	SSA (m <sup>2</sup> /g)
2 μm	2 ± 1	0.50 - 1.20
5 μm	5 ± 1	0.20 - 0.40
10 μm	10 ± 2	0.10 - 0.20
15 μm	15 ± 2	0.10 - 0.20
20 μm	20 ± 4	0.07 - 0.15
40 μm	42 ± 5	0.07 - 0.15
50 μm	50 ± 5	0.07 - 0.15
70 μm	73 ± 5	0.06 - 0.13
90 μm	90 ± 5	0.05 - 0.10
120 μm	120 ± 5	0.02 - 0.10

Other/Special Sizing is available upon request.  
Actual PSD & SSA also available upon request.

#### Description:

GNP Graystar's Spherical Alumina is a spherical alumina powder with high thermal conductivity, good heat resistance, high electrical insulation, high hardness, and low abrasivity. The spherical nature of this powder allows for high flowability and high packing density.

#### Applications:

GNP Graystar's Spherical Alumina is used in resins, rubbers, and plastics as fillers for thermal conductive sheets, fillers for molding materials, base powder for baking ceramics, blasting materials, and spacers.

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