



GNP Graystar

Specialty Materials

AN ISO 9001 CERTIFIED COMPANY



TECHNICAL DATA SHEET

High Purity Aluminum Nitride (AlN) Powder

Chemical Analysis

	GS-80	SS-80
Yttrium Oxide (Y ₂ O ₃) - wt%	5	5
Calcium (Ca) - ppm	100-200	< 30
Silicon (Si) - ppm	< 30	< 20
Iron (Fe) - ppm	< 10	< 10

Sizing and Properties

	GS-80	SS-80
Mean Particle Size	80 µm	80 µm
Apparent Density - g/cm ³	0.8-1.0	0.8-1.0
Tap Density - g/cm ³	0.9-1.1	0.9-1.1

Description:

GNP Graystar's Aluminum Nitride is a transparent, high purity AlN that exhibits high thermal conductivity (near 320 W/m·K), high electrical insulation properties, high strength, low thermal expansion coefficient and excellent resistance to plasma.

Applications:

GNP Graystar's High Purity Aluminum Nitride (AlN) Fillers are used in the production of IGBT driver boards, semiconductor manufacturing, parts such as etching mask, electrostatic chuck, and heater, in LED heat dissipation boards, in crucibles, and many other applications.

info@GNPGraystar.com

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Northern Office
37 John Glenn Dr.
Amherst, NY 14228
716.759.6600

www.GNPGraystar.com

Southern Office
9 Simmonsville Rd.
Bluffton, SC 29910
843.815.5600