GNPGraystar
Specialty Materials

TECHNICAL DATA SHEET
Aluminum Nitride (AlN) Fillers

Typical Properties

	M-G	F-10	F-30
Mean Particle Size (μm)	1.2-1.5	5-10	20-40
Particle Shape	Near Spherical	Near Spherical	Spherical
Real Density (g/cm^3)	3.26	3.26	> 3.30
Thermal Conductivity (W/m·K)	> 170	> 170	> 170
Apparent Density (g/cm^3)	0.3-0.5	1.3-1.5	1.4-1.6
Tap Density (g/cm^3)	0.7-0.9	1.6-1.8	1.8-2.0

	F-50	F-80
Mean Particle Size (μm)	40-60	70-90
Particle Shape	Spherical	Spherical
Real Density (g/cm^3)	> 3.30	> 3.30
Thermal Conductivity (W/m·K)	> 170	> 170
Apparent Density (g/cm^3)	1.6-1.8	1.6-1.8
Tap Density (g/cm^3)	1.8-2.0	1.8-2.0

Description:
GNPGraystar's Aluminum Nitride is a transparent, high purity AlN that exhibits high thermal conductivity (near 320 W/m·K), high electrical insulation properties, near spherical particles, high solid loading, low thermal expansion coefficient, and sharp particle size distribution.

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

info@GNPGraystar.com

Rev. 02/2020