

AN ISO 9001 CERTIFIED COMPANY

## **TECHNICAL DATA SHEET**Aluminum Nitride (AIN) 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/cm³)	3.26	3.26	> 3.30
Thermal Conductivity (W/m·K)	> 170	> 170	> 170
Apparent Density (g/cm³)	0.3-0.5	1.3-1.5	1.4-1.6
Tap Density (g/cm³)	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/cm³)	> 3.30	> 3.30	
Thermal Conductivity (W/m·K)	> 170	> 170	
Apparent Density (g/cm³)	1.6-1.8	1.6-1.8	
Tap Density (g/cm³)	1.8-2.0	1.8-2.0	



## 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, near spherical particles, high solid loading, low thermal expansion coefficient, and sharp particle size distribution.

## Applications:

**GNP**Graystar's High Purity Aluminum Nitride (AIN) 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.

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