

## Technical Data Sheet

# Aluminum Nitride Powder

<b>Product ID:</b>	130700PD001 - 130700PD009		
<b>Formular:</b>	AlN	<b>Molecular weight:</b>	40.99 g/mol
<b>CAS No.:</b>	24304-00-5	<b>EINECS No.:</b>	246-140-8
<b>Color:</b>	Gray/off white		
<b>Description:</b>	Our aluminum nitride is available in micron and nano powders, spherical and irregular powders, and different particle sizes can be customized according to customer needs. It offers excellent thermal conductivity, high electrical insulation, high-temperature resistance, and a low coefficient of thermal expansion.		
<b>Application:</b>	Thermal management materials, electronic substrates, semiconductor packaging, LED heat dissipation, high-power electronic devices, etc.		

**Product  
Image:**



### 1. Sizes

Product ID	Formular	Size	Micromorphology
130700PD001	AlN (99.5%)	<200 nm	Irregular
130700PD002	AlN (99.5%)	D50 <1 µm	Irregular
130700PD003	AlN (99.9%)	D50: 1-5 µm	Irregular
130700PD004	AlN (99.9%)	D50: 10-20 µm	Irregular
130700PD005	AlN (99.95%)	D50: 5-10 µm	Irregular
130700PD006	AlN (99%)	30-40 µm	Spherical
130700PD007	AlN (99%)	45-55 µm	Spherical
130700PD008	AlN (99%)	70-80 µm	Spherical
130700PD009	AlN (99%)	90-105 µm	Spherical
130700PD2NDZ	AlN (99%)	Customized	Spherical
130700PD2N5DZ	AlN (99.5%)	Customized	Irregular
130700PD3NDZ	AlN (99.9%)	Customized	Irregular
130700PD3N5DZ	AlN (99.95%)	Customized	Irregular

## 2. Chemical compositions

Element Typical Value Purity	Metal impurities (ppm)				
	Fe	Si	Ni	Zn	W
99%	≤ 1000	≤ 500	≤ 300	≤ 200	≤ 200
99.5%	≤ 500	≤ 300	≤ 200	≤ 100	≤ 100
99.9%	≤ 300	≤ 200	≤ 100	≤ 100	≤ 50
99.95%	≤ 100	≤ 100	≤ 50	≤ 80	≤ 50

*Note: The purity values shown are calculated by subtracting the sum of selected measured elemental impurities from 100%. These values do not represent the result of a full elemental analysis.*

## 3. Packaging

Bottle/Bag.

Double vacuum packed.

Customized packaging is available.

## 4. Period of Validity

It is recommended to use this product within 12 months. If it is overdue, the product quality status should be re-evaluated.

## 5. Handling and Storage

When using, wear appropriate protective equipment to avoid dust generation and ensure good ventilation.

Store in a sealed container in a cool, dry place away from moisture and direct sunlight.

## Contact Us

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