

ALUMINUM NITRIDE GRADE AT, GRADE BT

Chemical Formula	AlN
Chemical Name	Aluminum Nitride
Description of Product	Grade AT: Agglomerated Powder, broad particle size distribution Grade BT: Fine particle size, deagglomerated
HS Number	28500020
Grades Available	Product Designation Aluminum Nitride Grade AT Aluminum Nitride Grade BT

Chemical Characteristics

(Mass fraction in % [cg/g]; ppm [μ g/g])

	Grade AT			Grade BT		
N	min.	32.0	%	min.	32.0	%
C	max.	0.15	%	max.	0.15	%
O	max.	1.3	%	max.	1.5	%
Fe	max.	0.05	%	max.	0.05	%

Crystallographic Phases

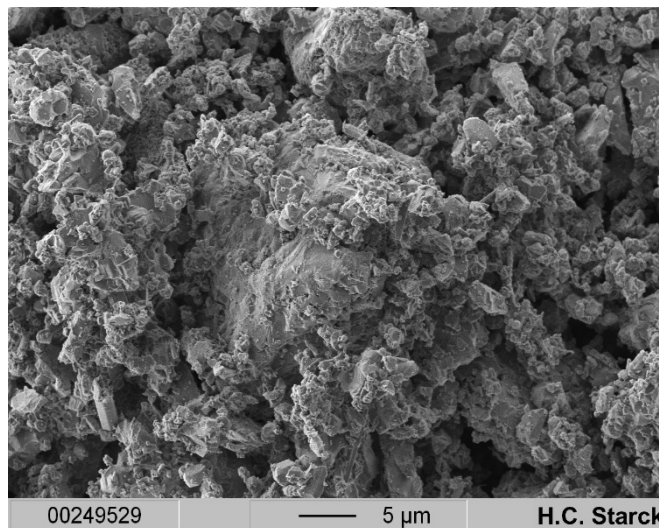
Crystal Structure	Hexagonal Single Phase	Hexagonal Single Phase
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Physical Characteristics

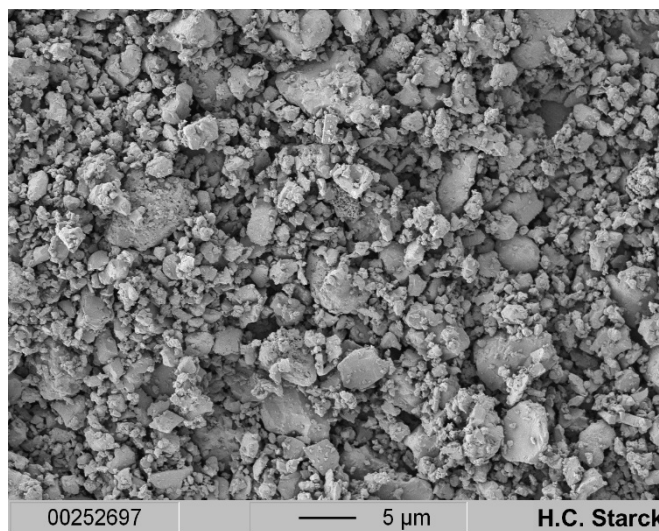
Specific Surface Area ¹⁾	\leq 2.0	m ² /g	1.8 - 3.8	m ² /g
Particle Size Distribution ²⁾				
D 10 %	0.4 - 1.4	μ m	0.2 - 0.6	μ m
D 50 %	6 - 10	μ m	1 - 3	μ m
D 90 %	17 - 35	μ m	5 - 10	μ m

1) TriStar by BET per ASTM D 3663, 2) MICROTRAC by Laser Light Diffraction per ASTM C 1070.

SEM picture³⁾
AIN Grade AT



SEM picture³⁾
AIN Grade BT



Packaging	50 kg in steel drums with polyethylene inlet (60 l). 9 drums on one pallet CP 3 (1140 x 1140 mm) = 1 packaging unit of 450 kg. Other packaging unit/quantity on request.
Storage and Handling	Storage and handling are subject to the rules and regulations in the country of use. Store in a closed container.
Hazards identification in Advertising (REGULATION (EC) No 1272/2008 Article 48)	Specific target organ toxicity – repeated exposure Category 1 Chronic aquatic toxicity Category 1.
Documentation	An inspection document in accordance with EN 10204 is supplied with every shipment.

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