

POWDERS FOR ADVANCED CERAMICS

Number Issue

1.8 -

3.8 m²/g

PD-5169 9-28.02.2022

ALUMINUM NITRIDE GRADE AT, GRADE BT

Chemical Formula AIN

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 [µg/g])

	Grade AT			Grade BT			
N	min.	32.0	%	min.	32.0 %		
С	max.	0.15	%	max.	0.15 %		
0	max.	1.3	%	max.	1.5 %		
Fe	max.	0.05	%	max.	0.05 %		

Crystallographic Phases

Crystal Structure	Hexagonal	Hexagonal
	Single Phase	Single Phase

Physical Characteristics

Specific Surface Area¹⁾

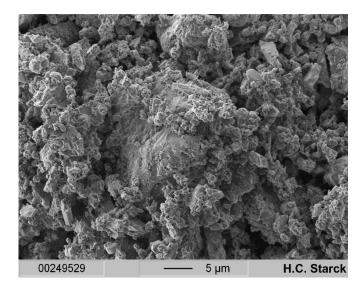
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Particle Size Distribution ²⁾								
D 10 %	0.4	-	1.4	μm	0.2	-	0.6	μm
D 50 %	6	-	10	μm	1	-	3	μm
D 90 %	17	-	35	μm	5	-	10	μm

 \leq 2.3 m²/q

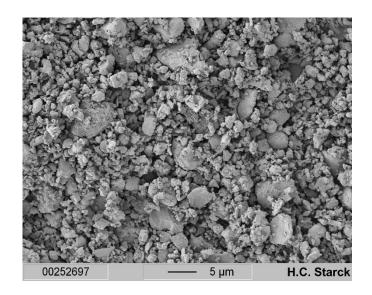
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Number Issue PD-5169 9-28.02.2022

SEM picture³⁾ AIN Grade AT



SEM picture³⁾ AIN Grade BT





Number PD-5169 Issue 9-28.02.2022

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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