

POWDERS FOR ADVANCED CERAMICS

Number Issue

PD-5168 7-21.04.2021

ALUMINUM NITRIDE GRADE A, GRADE B, GRADE C

Chemical Formula AIN

Chemical Name Aluminum Nitride

Description of Product Fine particle size, deagglomerated, high purity

HS Number 28500020

Grades Available Product Designation

Aluminum Nitride Grade A Aluminum Nitride Grade B Aluminum Nitride Grade C

Chemical Characteristics

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

N	Grade A			Grade	В	Grade C			
	min.	32.5	%	min.	31.5	%	min.	31.5	%
С	max.	0.1	%	max.	0.1	%	max.	0.1	%
0	max.	1.0	%	max.	1.2	%	max.	2.0	%
Fe	max.	0.005	5 %	max.	0.005	%	max.	0.005	5 %

Crystallographic Phases

Crystal Structure	Hexagonal Single Phase			Hexagonal Single Phase				Hexagonal Single Phase				
Physical Characteristics												
Specific Surface Area ¹⁾		≤	2.0	m²/g	1.2	-	2.8	m²/g	1.8	-	3.8	m²/g
Particle Size Distribution ²⁾ D 10 % D 50 %	0.4 6	- -	1.4 10	μm μm	0.3 2.0		0.6 4.5	μm μm	0.2 0.8		0.4 2.0	μm μm
D 90 %	17	-	35	μm	6.0	-	9.5	μm	3.0	-	6.0	μm

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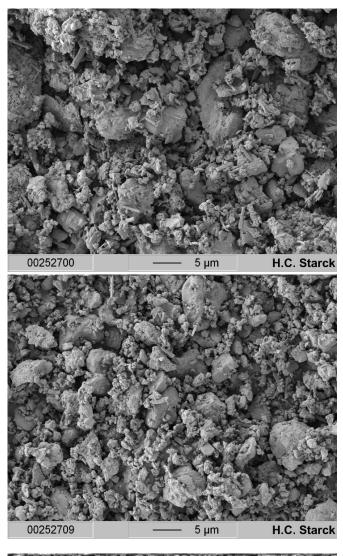
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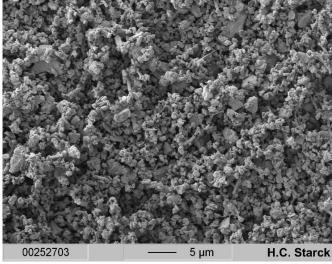
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SEM picture³⁾ AIN Grade A

SEM picture³⁾ AIN Grade B

SEM picture³⁾ AIN Grade C







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Packaging Grade A and Grade B: 50 kg in steel drums (60 l) with polyethylene inlet.

9 drums on one pallet CP 3 (1140 x 1140 mm) = 1 packaging unit of 450 kg.

Grade C: 30 kg in steel drums (60 l) with polyethylene inlet.

9 drums on one pallet CP 3 (1140 x 1140 mm) = 1 packaging unit of 270 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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