

SILICON NITRIDE GRADE HIGH PURITY for PV

Chemical Formula	Si ₃ N ₄
Chemical Name	Silicon Nitride
Description of Product	High purity Si ₃ N ₄
HS Number	28500030
Grades Available	Product Designation Si ₃ N ₄ Grade high purity for PV

Chemical Characteristics

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

Grade hp for PV			
N	min.	38.5	%
O	max.	1.3	%
Al	max.	10	ppm
Ca	max.	15	ppm
Fe	max.	10	ppm
Co	max.	3	ppm
Cr	max.	3	ppm
Cu	max.	3	ppm
K	max.	3	ppm
Mg	max.	5	ppm
Mn	max.	3	ppm
Mo	max.	3	ppm
Na	max.	3	ppm
Ni	max.	3	ppm
Ti	max.	3	ppm
V	max.	3	ppm
W	max.	5	ppm

Physical Characteristics

Specific Surface Area ¹⁾	8.0	- 10.0	m ² /g
Particle Size Distribution ²⁾			
D 90 %	2.0	- 3.0	µm
D 50 %	0.8	- 1.0	µm
D 10 %	0.2	0.4	µm

1) TRISTAR 3000 by BET (ASTM D 3663), 2) MASTERSIZER by Laser Light Diffraction per ASTM B 822, deglomeration with high energy ultrasonic before analysis.

Packaging	25 kg steel drums with polyethylene inlet. (60 Liter) 8 drums on one pallet CP1 (1000x1200 mm) = 1 Packaging-unit of 200 kg. Other packaging / quantity on request. Lot Size Höganäs silicon nitride powders are available in homogeneous lots up to 5 tons.
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)	None.
Documentation	An inspection document in accordance with EN 10204 is supplied with every shipment.

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