

Tel: 0049 1626484175



Technical Data Sheet

Silicon Nitride Powder

Product ID: 140700PD001 - 140700PD004

 Formular:
 Si₃N₄
 Molecular weight:
 140.28 g/mol

 CAS No.:
 12033-89-5
 EINECS No.:
 234-796-8

Color: Light gray

Description: Our silicon nitride powder typically has a purity of ≥99% and is available in both

alpha and beta phases. We offer customizable micron-sized and nano-sized powders according to customer requirements. The product features high strength, high hardness, excellent thermal stability, and outstanding corrosion resistance.

Application: Structural ceramics, electronic ceramics, wear-resistant and sealing materials,

thermal barrier coatings, and protective layers.

Product Image:



1. Sizes

Product ID	Formular	Size	Crystal From	
140700PD001	Si ₃ N ₄ (99%)	100 - 200 nm	Alpha-Si₃N₄ > 90%	
140700PD002	Si ₃ N ₄ (99%)	D50 < 5µm	Alpha-Si₃N₄ > 90%	
140700PD003	Si ₃ N ₄ (99%)	D50 < 3µm	Alpha-Si₃N₄ > 92%	
140700PD004	Si ₃ N ₄ (99%)	D50 < 20µm	Beta-Si ₃ N ₄ > 92%	
140700PDDZ	Si ₃ N ₄ (99%)	Customized	Customized	

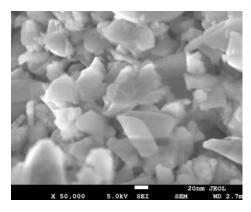
2. Chemical compositions

	Chemical Compositions (ppm)						
Typical Value Purity	Ca	Al	Fe	Cl	0		
99%	≤ 100	≤ 100	≤ 100	≤ 500	≤ 1.5 wt%		

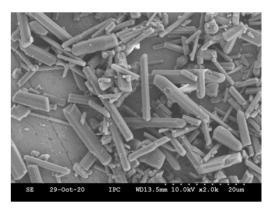
Tel: 0049 1626484175

Note: The purity values (metal basis, excluding gaseous elements (C, N, H, O)) 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. SEM



Alpha-Si₃N₄



Beta-Si₃N₄

4. Packaging

Bottled/Bag.

Double vacuum packed.

Customizable packaging is available upon request.

5. 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 protective equipment (e.g., mask, goggles, and gloves) and operate in a well-ventilated area to avoid inhalation of dust or direct skin contact.

Store in a tightly sealed container in a cool, dry, and dark place to prevent moisture absorption and oxidation.

Contact Us

Website:www.vimaterial.de Email: info@vimaterial.de

Tel: 0049 1626484175

Add.: Begener Straße 14., 30625 Hannover, Niedersachsen, Germany.