

SILICON NITRIDE GRADE HIGH PURITY for PV

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| 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. | 5 | ppm |
| Fe | max. | 5 | 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.

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| 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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