GNPGraystar
Specialty Materials

TECHNICAL DATA SHEET

Silicon Nitride Powders / α-Si_3N_4

Typical Chemistry

	< 10 µm	< 3 µm
Nitrogen (N)	> 38.7% (≥38.5%)	> 38.7% (≥38.5%)
Oxygen (O)	< 0.6% (≤1.0%)	< 1.2% (≤1.6%)
α-content	>86%(≥85%)	>86%(≥85%)
Carbon (C)	< 0.20 %	< 0.20 %
Iron (Fe)	< 0.07 %	< 0.07 %
Aluminum (Al)	< 0.03 %	< 0.03 %
Calcium (Ca)	< 0.03 %	< 0.03 %
Other Elements	≤ 0.02%/element ≤ 0.10% total	≤ 0.02%/element ≤ 0.10% total

Typical Sizing (via Sympatec HELOS)

	< 10 µm	< 3 µm
d98	< 7 µm (10 µm max.)	3 µm max.
d90	< 5 µm	< 2 µm
d50	< 1.9 µm	< 1.0 µm

Other Sizes Available Upon Request

Packaging:
200 L steel drums with inner PE bag, containing 100 kg.

Storage Condition:
GNPGraystar's Silicon Nitride Powder should be in a dry place and in closed, original container. The shelf life **GNP**Graystar's Silicon Nitride Powder at room temperature is min. 24 months in the original unopened container, under the storage conditions as suggested in the SDS.

Description:
GNPGraystar's Silicon Nitride Powder is a grey powder derived from the direct chemical reaction of silicon and nitrogen.

Applications:
GNPGraystar's Silicon Nitride Powder is used in high performance technical ceramics for applications with very high wear and thermal stress conditions.

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