



GNP Graystar

Specialty Materials

AN ISO 9001 CERTIFIED COMPANY



TECHNICAL DATA SHEET

Silicon Nitride Powders / α -Si₃N₄

Typical Chemistry

	< 10 μ m	< 3 μ m
Nitrogen (N)	> 38.7% (\geq 38.5%)	> 38.7% (\geq 38.5%)
Oxygen (O)	< 0.6% (\leq 1.0%)	< 1.2% (\leq 1.6%)
α -content	>86% (\geq 85%)	>86% (\geq 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	\leq 0.02%/element \leq 0.10% total	\leq 0.02%/element \leq 0.10% total

Typical Sizing (via Sympatec HELOS)

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

Other Sizes Available Upon Request

Packaging:

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

Storage Condition:

GNP Graystar'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:

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

Applications:

GNP Graystar'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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