

CHARACTERISTICS	TYPICAL VALUES		
	Silzot® TQ	Silzot® HQ	Silzot® HQ ^{plus}
N-content	≥ 38.0%	> 38.7%	> 38.7%
O-content	≤ 1.5%	< 0.6%	< 0.6%
α-content	≥ 90%	> 86%	≥ 95%
Al	≤ 0.20%	< 0.07%	< 0.07%
Fe	≤ 0.20%	< 0.03%	< 0.03%
Ca	≤ 0.10%	< 0.03%	< 0.03%
PARTICLE SIZE			
d98	< 10µm	< 10µm	< 10µm
d90	-	< 5µm	< 5µm
d50	-	< 1.9µm	< 1.9µm

POWDER GRADES

Due to Alzchem' s continuous production process and solely dry processing steps, Silzot® – silicon nitride powders show a very stable and uniform high quality and are manufactured with best environmental practice.

PROCESSED GRADES

Silzot® processed grades allow you to mould parts right away without requiring a time and cost consuming preparation of silicon nitride powders with other additives.

We would be pleased to send you further information, product details or give assistance as needed.

PLEASE CONTACT US IN GERMANY:

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This information is based upon our present knowledge and experience, and is intended to provide general notes about our products and their uses. AlzChem therefore assumes no liability for such information or advice, including the suitability of such information or advice for a particular application or the extent to which such information or advice may relate to third party intellectual property rights or to laws and provisions. It is the sole responsibility of the customer to arrange for incoming products to be inspected and tested by qualified experts. Edition: 2017/02 (This publication supersedes all previous publications for this product group.)



High Quality α-Silicon Nitride Powders



NEW LEVEL
FOR CERAMICS

...build to last

POWDER GRADES

Silicon metal + Nitrogen → Silzot®




High Quality Grade Powder.
Since more than 25 years.
α- content > 86%
O- content < 0.6%
d98 <10µm*
*also available in d98<3µm



1µm
Sintered Silzot® HQ <3µm





Technical Grade Powder
α- content ≥ 90%
O- content ≤ 1.5%
d98 < 10µm



High Quality Grade Powder
α- content ≥ 95%
O-content < 0.6%
d98 < 10µm
*also available in d98<3µm

PROCESSED GRADES

Silzot® + Sintering Additives + Organic Additives



Spray dried Silzot® HQ <3µm powder with sintering additives and organic binder.
Ready to Press granules with excellent flowability and pressability.



10µm
Silzot® RTP granules



Compounded and pelletized Silzot® HQ <3µm powder with sintering additives and organic binder.
Ready-to-Use Feedstock for injection moulding.



5 mm
Silzot® FS pellets

