CHARACTERISTICS	TYPICAL VALUES		
	Silzot <sup>®</sup> TQ	Silzot <sup>®</sup> HQ	Silzot <sup>®</sup> HQ <sup>plus</sup>
N-content	≥ 38.0%	> 38.7%	> 38.7%
0-content	≤ 1.5%	< 0.6%	< 0.6%
α-content	≥ 90%	> 86%	≥ 95%
AI	≤ 0.20%	< 0.07%	< 0.07%
Fe	≤ 0.20%	< 0.03%	< 0.03%
Ca	≤ 0.10%	< 0.03%	< 0.03%
PARTICLE SIZE	<u>.</u>		
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<sup>®</sup> – silicon nitride powders show a very stable and uniform high quality and are manufactured with best environmental practice.

## **PROCESSED GRADES**

Silzot<sup>®</sup> 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:

AlzChem AG

Dr.-Albert-Frank-Straße 32 83308 Trostberg, Germany

T +49 8621 86-0 F +49 8621 86-2911 info@alzchem.com



Maciej Kuczynski T +49 8621 86-3022 maciej.kuczynski@alzchem.com

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.)



INNOVATION SINCE 1908

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High Quality  $\alpha$ -Silicon Nitride Powders

## **NEW LEVEL FOR CERAMICS** ...build to last

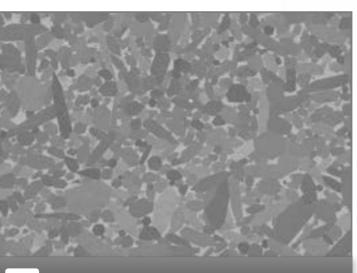
## **POWDER GRADES**

#### Silicon metal + Nitrogen - Silzot<sup>®</sup>



High Quality Grade Powder. Since more than 25 years.  $\alpha$ - content > 86% 0- content < 0.6% d98 <10µm\*

\*also available in d98<3µm



Sintered Silzot® HQ <3µm

## **PROCESSED GRADES**

### Silzot<sup>®</sup> + Sintering Additives + Organic Additives

Silzot<sup>®</sup> RTP Spray dried Silzot<sup>®</sup> HQ <3µm powder with sintering additives and organic binder. Ready to Press granules with excellent flowabi-

lity and pressability.



Technical Grade Powder  $\alpha$ - content  $\geq 90\%$ 0- content  $\leq 1.5\%$ d98 < 10µm



High Quality Grade Powder  $\alpha$ - content  $\geq 95\%$ 0-content < 0.6%d98 < 10µm \*also available in d98<3µm

Silzot<sup>®</sup> FS

Compounded and pelletized Silzot<sup>®</sup> HQ <3µm powder with sintering additives and organic binder.

Ready-to-Use Feedstock for injection moulding.

