

Technical Data Sheet



Description: **Silzot[®] HQ plus (Powder)** is a grey powder derived from the direct chemical reaction of silicon and nitrogen.

CAS-no: 12033-89-5

Chemical Name / Formula: Silicon Nitride / α - Si3N4

Characteristics:	Specified	Typical Value
N-content	$\geq 38,5$ %	$> 38,7$ %
O-content	$\leq 1,0$ %	$< 0,6$ %
α -content	≥ 93 %	≥ 95 %
C		$< 0,20$ %
Al		$< 0,07$ %
Fe		$< 0,03$ %
Ca		$< 0,03$ %
Other Elements	single elements	$\leq 0,02$ %
	total amount	$\leq 0,10$ %

Particle Size: powder $d_{98} \leq 10$ μm $d_{98} < 7$ μm
 $d_{90} < 5$ μm
 $d_{50} < 1,9$ μm
(Sympatec HELOS dry analysis)

other grain size distributions on demand.

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

Storage Condition: Silzot[®] HQ plus (Powder) should be kept in a dry place and in closed original container. The shelf life of Silzot[®] HQ plus (Powder) at room temperature is min. 24 months in the original unopened container, under the storage conditions as suggested in the MSDS.

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