

Product Data Sheet

Silgrain® MicronCut

Elkem ASA Silicon Products
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Description Silgrain® MicronCut is a micronised silicon powder with low content of impurities.

Applications Raw material in the ceramic industry.

Chemical analysis & physical data

	Typical	Min	Max
Si wt%*	99.6	99.4	-
Fe wt%	0.11	0.08	0.20
Al wt%	0.18	0.13	0.25
Ca wt%	0.022	0.013	0.050
Ti wt%	0.011	0.008	0.020
B ppmw	30	-	40
P ppmw	25	-	40

Other trace elements on request. Fe, Al, Ca and Ti measured by XRF (X-ray fluorescence). P and B measured by ICP (Inductively Coupled Plasma). Si wt% = 100 wt% - Fe wt% - Al wt% - Ca wt% - Ti wt% - 0.1 wt%. The 0.1 wt% is subtracted as a lump sum of other metallic elements in silicon.*

Sizing Typical sizes are 0-10 µm, 0-45 µm and 0-75 µm. Other sizes can be delivered upon request. All Silgrain® MicronCut products have a well-defined top cut with max. 1 vol% oversize according to laser diffraction analysis.

Packaging Silgrain® MicronCut is typically delivered in 20 kg paper bags or 1000 kg big bags.

Storage and handling Store under dry conditions. Avoid handling that generate dust build-up. Avoid ignition sources (e.g., welding) in areas with high dust concentrations.

Shelf life Unlimited when stored under dry conditions.

Health, safety & environment The product does not meet the criteria for hazard classification according to Regulation (EC) No 1272/2008 (CLP) and UN GHS (7th rev.). For more information, please refer to Elkem Product Safety Information No. 302.

Quality assurance Elkem's management system is certified to ISO 9001:2015.

Sustainability Elkem's climate roadmap is detailing how the company plans to develop its business in line with the aim of the Paris Agreement of limiting global warming to well below two degrees. The company aims to reduce its total fossil CO₂ emissions by 28% from 2020 to 2031. Elkem's long-term goal is net zero emissions by 2050. For further information, please visit www.elkem.com/sustainability/.

Climate change (IPCC2021 GWP 100a v1.02): 4,26 kg CO₂ eq / kg. Calculation from 2023 based on 2022 actual production data including scope 1, 2 and 3.**

Additional Information and contact For further information please contact our Elkem sales representative via our contact form: <https://www.elkem.com/contact>

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