

Product Data Sheet

Silgrain® XO MicronCut

1. Description

Silgrain® XO MicronCut is a micronised silicon powder aged under oxidizing conditions to promote growth of the oxide layer.

2. Application

The main application for Silgrain® XO MicronCut is as a raw material for the ceramic industry. The aged material will lower the formation of hydrogen when the silicon is exposed to water based solutions. Silgrain® XO MicronCut is therefore especially suited for customers using slip casting processes for the production of ceramic components.

3. Chemical analysis

See table below for chemical specifications.

4. Sizes

Silgrain® XO MicronCut can be delivered in a wide range of sizes. Typical sizes are 0-10 µm,

0-20 µm, 0-45 µm, 0-60 µm, 0-75 µm, 0-100 µm and 0-150 µm. All products contain max. 1 % oversize according to laser diffraction. Particle size distribution curves and D10, D50 and D90 values can be supplied upon request.

5. Packing

Silgrain® XO MicronCut can be delivered in 1000 kg big bags or 25 kg paper bags. Other non-standard packaging on request.

6. Local Elkem representative

For further information please contact our sales representative. Our specialists will help solve any individual problem.

7. Health, Safety and Environment

Not classified as hazardous material in accordance with GHS and CLP. Please refer to the corresponding Elkem Product Safety Information No. 302 for further details.

Silgrain® XO MicronCut

Analysis	Si* wt%	Fe wt%	Al wt%	Ca wt%	Ti wt%	P ppmw	B ppmw
Max		0.20	0.25	0.050	0.020	35	35
Min		0.08	0.13	0.013	0.008		
Typical	99.6	0.11	0.18	0.022	0.011	25	30

Other trace elements on request

Qualities with low conductivity (max 9 µS/cm) and pH (max 6) can be delivered

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 metallic elements in silicon not separately subtracted

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