

Product Data Sheet

Silgrain®

1. Description

Silgrain® is a silicon powder containing minimum 99 % Si.

2. Application

Silgrain® is mainly used in the production of trichlorosilane for production of polysilicon used in the electronic and solar industry.

3. Chemical analysis

See table below for chemical specifications.

4. Sizes

The typical size of Silgrain® is 45-500 µm, but other sizes are also available. Contact us and we will provide a particle size distribution

optimised for your process. Particle size distributions can be supplied upon request.

5. Packing

Silgrain® can be delivered in 1000 kg big 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®

Analysis	Si* wt%	Fe wt%	Al wt%	Ca wt%	Ti wt%	P ppmw	B ppmw	Size
Max		0.35	0.35	0.050	0.035	35	35	
Min		0.15	0.20	0.020	0.015			
Typical	99.4	0.22	0.26	0.035	0.020	25	30	45-500 µm

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 metallic elements in silicon not separately subtracted

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Revised Jan 2019

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