

# Product Data Sheet

## Silgrain® PreSize

### 1. Description

Silgrain® PreSize is a silicon powder produced in two main qualities: Silgrain® PreSize and Silgrain® Solar PreSize.

### 2. Application

The main application for Silgrain® PreSize qualities are as a raw material for the production of sputtering targets used in glass coating and electronic industry. Our Silgrain® PreSize qualities are tailor made for thermal spraying processes.

### 3. Chemical analysis

See table below for chemical specifications.

### 4. Sizes

Silgrain® PreSize qualities are produced with both a well-defined bottom cut and top cut. Typical size is 40-120 µm. Particle size

distribution curves and D10, D50 and D90 values can be supplied upon request. Contact us if other closed particle size distributions are needed.

### 5. Packing

Silgrain® PreSize qualities can be delivered in 1000 kg big bags or 125 kg steel drums. 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® PreSize

Analysis	Si* wt%	Fe wt%	Al wt%	Ca wt%	Ti wt%	P ppmw	B ppmw
Max		0.05	0.12	0.02	0.005	35	35
Min		0.02	0.07	0.005	0.001		
Typical	99.8	0.04	0.09	0.013	0.001	25	30

### Silgrain® Solar PreSize

Analysis	Si** wt%	Fe ppmw	Al ppmw	Ca ppmw	Ti ppmw	P ppmw	B ppmw
Max		30	400	35	5	35	35
Min		15	150	15	1		
Typical	99.9	25	300	25	2	25	30

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

Fe, Al, Ca, Ti, P, B, Mn, Cu, Ni, Cr, Mg and V measured by ICP (Inductively Coupled Plasma)

\*\*Si wt% = 100wt% - Fe wt% - Al wt% - Ca wt% - Ti wt% - B wt% - P wt% - Mn wt% - Cu wt% - Ni wt% - Cr wt% - Mg wt% - V wt%

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