

Product data sheet

Jetmilled Silgrain®

1. Description

Jetmilled Silgrain® is a silicon powder and can be supplied in different grades.

2. Application

The main application for Jetmilled Silgrain® is as a raw material for the ceramic industry.

3. Chemical analysis and size

Jetmilled Silgrain® is produced in three main qualities, Silgrain® HQ, Silgrain® Low Fe and Silgrain® High Fe. To produce specific grades with controlled impurity levels a mixture of the below grades can be charged to the Jetmill.

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

Jetmilled Silgrain® can be delivered in a wide range of sizes. Typical sizes are (given in microns); 0-10, 0-20, 0-40, 0-60, 0-75, 0-100, 0-150. Size curves and D₁₀, D₅₀ and D₉₀ values can be supplied upon request.

4. Packing

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

5. Local Elkem representative

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

6. Health and Safety

Refer to Elkem MSDS sheet no. 303 – Silgrain® jetmilled.

Silgrain® HQ

Analysis	Si wt%	Fe wt%	Al wt%	Ca wt%	Ti wt%	P wtppm	B wtppm
Max		0,05	0,12	0,02	0,005	35	35
Min		0,02	0,07	0,005	0,001	25	25
Typical	99,7	0,035	0,09	0,01	0,002	30	30

Silgrain® Low Fe

Analysis	Si wt%	Fe wt%	Al wt%	Ca wt%	Ti wt%	P wtppm	B wtppm
Max		0,20	0,25	0,050	0,020	35	35
Min		0,08	0,13	0,013	0,008	25	25
Typical	99,5	0,11	0,18	0,023	0,012	30	30

Silgrain® High Fe

Analysis	Si wt%	Fe wt%	Al wt%	Ca wt%	Ti wt%
Max		1,0	1,0	0,12	0,20
Min		0,4	0,4	0,04	0,05
Typical	97,8	0,65	0,65	0,08	0,11

Other trace elements on request

Silgrain® is registered trademark of Elkem AS.