



TECHNICAL DATA SHEET

Silicon Metal & Silicon Powder

Grades, chemical composition, particle size and physical properties.

1 Silicon Metal Lump — Chemical Composition (%)

Standard metallurgical grades. The grade number indicates maximum Fe / Al / Ca. Impurities not greater than the values below.

Grade	Fe (max)	Al (max)	Ca (max)	Size
1101	0.1	0.1	0.01	10-100mm
2202	0.2	0.2	0.02	10-100mm
3303	0.3	0.3	0.03	10-100mm
421	0.4	0.2	0.1	10-100mm
441	0.4	0.4	0.1	10-100mm
553	0.5	0.5	0.3	10-100mm

Other sizes (e.g. 3-10mm, 0-3mm) available on request.

2 Silicon Metal Granule — Chemical Composition (%)

Crushed from quality industrial silicon; for refractory materials and refractory ceramics.

Grade	Fe (max)	Al (max)	Ca (max)
2202	0.2	0.2	0.02
3303	0.3	0.3	0.03
411	0.4	0.1	0.1
421	0.4	0.2	0.1
441	0.4	0.4	0.1
553	0.5	0.5	0.3

3 Silicon Metal Powder — Specifications

Milled and air-classified; particle size distribution customized to your process.

Si Content	Particle Size Range	Oversize	Undersize
99%	150-500 micron	+500 <= 10%	-150 <= 10%
99%	100-425 micron	+425 <= 10%	-125 <= 10%

Si Content	Particle Size Range	Oversize	Undersize
99%	45-425 micron	+425 <= 5%	-45 <= 5%
99%	0-150 micron	+150 <= 5%	-150 >= 95%
99%	0-45 micron	+45 <= 5%	-45 >= 95%
98%	0-75 micron	+75 <= 5%	-75 >= 95%
98%	0-45 micron	+45 <= 5%	-45 >= 95%

Bulk density approx. 1.1-1.5 g/cm³ depending on size. Other PSD processed on request.

4 High Purity Silicon Powder — Purity Grades

Grade	Purity	Typical Application	Particle Size
3N	>= 99.9%	High purity ceramics, advanced materials	Custom PSD
4N	>= 99.99%	Electronic & battery anode materials	Custom PSD
5N	>= 99.999%	Semiconductor, photovoltaic, aerospace	Custom PSD

5 Packing & General Notes

- Packing: 25kg bags with PE liner, 1 ton big bags, or customized OEM packing.
- A batch-specific Certificate of Analysis (COA) is issued with every shipment.
- PSD report (laser diffraction, D10/D50/D90) available for powders on request.
- Values are typical and for reference; final specification is confirmed per order.

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