

SicoMill® Silicon Powder

SicoMill® is a **finely ground silicon powder**, especially developed for the ceramic industry. Vesta offers SicoMill® in three different purity levels and four different particle sizes, in addition to powder grades customized to our clients' specifications. Our consistent raw materials allows our customers to produce superior quality products. Applications range from ceramic bearings and cutting tools to pyrotechnical mixes.

CHEMICAL PROPERTIES

	Grade 2		Grade 4		Grade 4N	
	Spec.	Typical	Spec.	Typical	Spec.	Typical
Si Content (%)	>98	98.60	>98.9	99.70	99.99	99.99
IMPURITIES (%):						
Fe	<0.52	0.40	<0.09	0.05	<0.006	0.004
Al	<0.20	0.15	<0.11	0.06	<0.005	0.002
Ca	<0.08	0.05	<0.02	0.01	<0.002	0.005
C	<0.10	0.06	<0.15	0.10	*	*
O ₂	<1.0	**	<1.0	**	<0.100	0.060

PHYSICAL PROPERTIES

Particle size	Distribution (µm)			Cut-Off (µm)		Bulk Density (g/cm ³)		Surface Area (BET) (m ² /g)
	D ₁₀	D ₅₀	D ₉₀	D	Typical	Spec.	Typical	
B	10	40	60	98%	<100	1.0	1.4	0.4
C	3	11	25	98%	<30	0.7	1.1	1.2
D	2	7	13	99.5%	<30	0.6	0.9	2.1
E	1	4	8	99.9%	<20	0.5	0.8	3.5

* Not measured

** Oxygen content depends on the particle size distribution.