

# Product data sheet

## Silicon 97

### 1. Description

Silicon 97 is a large scale furnace produced and refined Silicon from Elkem. Unlike Silicon 98-99, it is a silicon grade containing typical 1,7% Fe, which gives a benefit in processes where Fe has to be added. Large furnace operation gives a high degree of consistency, both in analysis and in refining characteristics. The product has low calcium, slag and carbide content.

### 2. Application

Silicon 97 is a refined grade silicon, containing max 0,05% Ca. The refining process guarantees a slag free product of high consistency. Silicon 97 dissolves easily and provides a high yield.

Silicon 97 is an excellent silicon source for all aluminium alloys where iron is not a critical element. It can be used for all HP die-casting alloys, for hyper-eutectic alloys and for most AA 6000 extrusion billet alloys.

### 3. Chemical analysis and size

Standard sizing is 10-100 mm or 6-35 mm.  
Other sizing on request.

Analysis	Si wt%	Fe <sup>1)</sup> wt%	Ca wt%	Ti ppm	P ppm
Max		2,0	0,05	1000	50
Min	97,0	1,5			
Typical	97,5	1,7	0,02	800	30

<sup>1)</sup> Higher Fe can be delivered on request.

### 4. Packing

Silicon 97 can be delivered bulk in container or in big bags (1200 kg).

### 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. 301 – Si-Met.