

# Product data sheet

## Elkem Microsilica® NG-56

**Elkem ASA Silicon Products**  
 Drammensveien 169 P.O. Box 334  
 Skøyen NO-0213 OSLO  
 Tel: +47 22 45 01 00  
[www.elkem.com](http://www.elkem.com)

**Description** Elkem Microsilica® is a key ingredient in advanced low and ultra-low cement castables. It is highly reactive during sintering, which leads to improved ceramic bonding at reduced firing temperatures.

**Applications** Elkem Microsilica® is used in castables, gunning mixes and other shaped and unshaped materials.

- Benefits**
- Improved flow – easier to cast
  - Improved particle packing - denser castables
  - Gelification (coagulation) in gunning mixes
  - Improved hot-strength properties

**Chemical analysis & physical data**

<i>Weight%</i>	<i>Spec*</i>
SiO <sub>2</sub>	min. 95.5
C <sub>free</sub> **	max. 1.5
Fe <sub>2</sub> O <sub>3</sub>	max. 0.5
Al <sub>2</sub> O <sub>3</sub>	max. 0.5
CaO	max. 0.7
MgO	max. 0.5
K <sub>2</sub> O	max. 0.7
Na <sub>2</sub> O	max. 0.4
H <sub>2</sub> O ***	max. 1.0

<i>Properties</i>	<i>Spec*</i>
Loss on Ignition	% max. 2.0
Coarse Particles >45µm	% max. 1.0
pH-value	6.5-8.5
Bulk density ***	kg/m <sup>3</sup> 280-400

\* Test methods are available upon request  
 \*\* C in SiC is not included  
 \*\*\* When packed

**Packaging** The product is available in 25 kg small bags and in 400 kg big bags. Please contact our sales representative for more details.

- Storage and handling**
- Avoid dust generation
  - Store material properly, protected from moisture and contamination

**Health, safety & environment** Please consult our Product Safety information on our website: <https://www.elkem.com/silicon-products/refractories/microsilica/page-1/>.

**Sustainability** For Elkem, sustainability is central to our business strategy. Our mission is to provide advanced material solutions shaping a better and more sustainable future, adding value to our stakeholders globally. We are committed to reduction in embodied carbon emission. For further information, please visit [www.elkem.com/sustainability/](http://www.elkem.com/sustainability/) or contact us to learn more about our sustainability roadmap.

**Additional information and contact** For further information, please contact our local sales representative. Our specialists will assist you in solving individual problems.