

# Product Data Sheet

## Elkem Microsilica<sup>®</sup> Grade 951

---

### 1. Description

Elkem Microsilica<sup>®</sup> 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. Elkem Microsilica<sup>®</sup> is used in mortars, gunning mixes and other shaped and unshaped materials.

### 2. Chemical Analysis (weight%)

Element		Spec*
SiO <sub>2</sub>	% min.	94.0
C	% max.	2.0
Fe <sub>2</sub> O <sub>3</sub>	% max.	1.0
Al <sub>2</sub> O <sub>3</sub>	% max.	2.0
CaO	% max.	1.2
MgO	% max.	1.0
K <sub>2</sub> O	% max.	1.5
Na <sub>2</sub> O	% max.	0.5
H <sub>2</sub> O **	% max.	1.0

### 3. Physical Data

Properties		Spec*
Loss on Ignition	% max.	3.0
Coarse particles >45µm	% max.	1.0
pH-value		6.5 - 8.5
Bulk density **	kg/m <sup>3</sup>	200 - 450

\* Test methods are available upon request

\*\* When packed

### 4. Packing

The product is available in 25 kg or 20 kg small bags and various sizes big bags. Please contact our sales representative for more details.

### 5. Customer benefits

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

### 6. Recommendation

Elkem Microsilica<sup>®</sup> Grade 951 is not intended to be used in products that will be in direct contact with molten iron or steel.

### 7. Local Elkem representative

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

### 8. Health, Safety and Environment

Please consult our Quality & Safety information on our website: <http://www.elkem.com/en/Silicon-materials/Quality--safety/>

### 9. Brochures

- "Let's Make a Castable", No.59
- "Let's Make a Mullite Matrix", No.61

Technical papers are available for free download on our website: <http://www.elkem.com/en/Silicon-materials/Support/Refractories/Technical-papers/>

All data listed are reference values subject to production-related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

Elkem Microsilica<sup>®</sup> is a registered trademark of Elkem AS.

This product data sheet is the property of Elkem AS and may not, without written permission, be used, copied or made available to others. The receiver is responsible for any misuse.

Revised April 2014

© Copyright Elkem AS