

## Product data sheet Elkem Microsilica® 971

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| Description                              | Elkem Microsilica® is a key ingredient in advanced low and ultra-low cement castables.<br>It is highly reactive during sintering, which leads to improved ceramic bonding at<br>reduced firing temperatures.   |   |   |
|--|--|---|---|
| Applications                             | Elkem Microsilica® is used in castables, gunning mixes and other shaped and unshaped materials.  |   |   |
| Features                                 | Elkem Microsilica® 971 is offered both as Undensified (971-U) and Densified (971-D).   |   |   |
| Benefits                                 | <ul> <li>Improved flow – easier to cast</li> <li>Improved particle packing - denser castables</li> <li>Gel-bonding</li> <li>Improved hot-strength properties</li> </ul>  |   |   |
| Chemical analysis<br>& physical data     | Weight%<br>SiO <sub>2</sub> (diff.)<br>C <sub>free</sub> ***<br>Fe <sub>2</sub> O <sub>3</sub><br>Al <sub>2</sub> O <sub>3</sub><br>CaO<br>MgO<br>K <sub>2</sub> O<br>Na <sub>2</sub> O<br>P <sub>2</sub> O <sub>5</sub><br>SO <sub>3</sub><br>Cl<br>H <sub>2</sub> O ****<br><i>Properties</i><br>Loss on Ignition<br>Coarse Particles >45µm<br>pH-value<br>Bulk density ****<br>Undensified 971-U<br>Densified 971-U<br>Densified 971-D<br>* Test methods are available upon requ<br>* Typical values are for guidance only<br>** Typical values are for guidance only | Spec*<br>max. 0.8<br>max. 0.1<br>max. 0.3<br>max. 0.4<br>max. 0.2<br>max. 0.3<br>max. 0.3<br>max. 0.3<br>max. 0.10<br>max. 0.3<br>max. 0.10<br>max. 0.5<br>Spec*<br>% max. 0.8<br>% max. 0.5<br>5.5-7.8<br>kg/m <sup>3</sup> 250-350<br>kg/m <sup>3</sup> 450-550 | <b>Typical**</b> 97 0.59 0.07 0.20 0.29 0.18 0.22 0.25 0.04 0.17 0.01 0.20 <b>Typical**</b> 0.54 0.25 7.2 300 500 |
| Packaging                                | The product is available in 25 kg small bags and various sized big bags. Please contact our sales representative for more details.   |   |   |
| Storage and handling                     | <ul><li>Avoid dust generation</li><li>Store material properly, protected from moisture and contamination</li></ul>   |   |   |
| Health,<br>safety &<br>environment       | Please consult our Product Safety information on our website:<br>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 <a href="http://www.elkem.com/sustainability/">www.elkem.com/sustainability/</a> or contact us to learn more about our sustainability roadmap.  |   |   |
| Additional<br>information and<br>contact | For further information, please contact our local sales representative. Our specialists will assist you in solving individual problems.  |   |   |

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