

Product data sheet

Elkem Microsilica® 955

Elkem ASA Silicon Products
 Drammensveien 169 P.O. Box 334
 Skøyen NO-0213 OSLO
 Tel: +47 22 45 01 00
www.elkem.com

Description	<p>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.</p>																																				
Applications	<p>Elkem Microsilica® is used in castables, gunning mixes and other shaped and unshaped materials.</p>																																				
Features	<p>Elkem Microsilica® 955 is offered both as Undensified (955-U) and Densified (955-D).</p>																																				
Benefits	<ul style="list-style-type: none"> • Improved flow – easier to cast • Improved particle packing - denser castables • Gelification (coagulation) in gunning mixes • Improved hot-strength properties 																																				
Chemical analysis & physical data	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;"><i>Weight%</i></th> <th style="text-align: left;"><i>Spec*</i></th> </tr> </thead> <tbody> <tr> <td>SiO₂ (diff.)</td> <td>typical 95.5</td> </tr> <tr> <td>C_{free} **</td> <td>max. 1.0</td> </tr> <tr> <td>Fe₂O₃</td> <td>max. 0.3</td> </tr> <tr> <td>Al₂O₃</td> <td>max. 0.7</td> </tr> <tr> <td>CaO</td> <td>max. 0.4</td> </tr> <tr> <td>MgO</td> <td>max. 0.5</td> </tr> <tr> <td>K₂O</td> <td>max. 1.0</td> </tr> <tr> <td>Na₂O</td> <td>max. 0.5</td> </tr> <tr> <td>H₂O ***</td> <td>max. 1.0</td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <th style="text-align: left;"><i>Properties</i></th> <th style="text-align: left;"><i>Spec*</i></th> </tr> <tr> <td>Loss on Ignition</td> <td>% max. 2.0</td> </tr> <tr> <td>Coarse Particles >45µm</td> <td>% max. 1.0</td> </tr> <tr> <td>pH-value</td> <td>6.5-8.5</td> </tr> <tr> <td>Bulk density ***</td> <td></td> </tr> <tr> <td><u>Undensified 955-U</u></td> <td>kg/m³ 260-380</td> </tr> <tr> <td><u>Densified 955-D</u></td> <td>kg/m³ 450-650</td> </tr> </tbody> </table> <p style="font-size: small;"> * Test methods are available upon request ** C in SiC is not included *** When packed </p>	<i>Weight%</i>	<i>Spec*</i>	SiO ₂ (diff.)	typical 95.5	C _{free} **	max. 1.0	Fe ₂ O ₃	max. 0.3	Al ₂ O ₃	max. 0.7	CaO	max. 0.4	MgO	max. 0.5	K ₂ O	max. 1.0	Na ₂ O	max. 0.5	H ₂ 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 ***		<u>Undensified 955-U</u>	kg/m ³ 260-380	<u>Densified 955-D</u>	kg/m ³ 450-650
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Packaging	<p>The product is available in 25 kg small bags and various sized big bags. Please contact our sales representative for more details.</p>																																				
Storage and handling	<ul style="list-style-type: none"> • Avoid dust generation • Store material properly, protected from moisture and contamination 																																				
Health, safety & environment	<p>Please consult our Product Safety information on our website: https://www.elkem.com/silicon-products/refractories/microsilica/page-1/.</p>																																				
Sustainability	<p>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/ or contact us to learn more about our sustainability roadmap.</p>																																				
Additional information and contact	<p>For further information, please contact our local sales representative. Our specialists will assist you in solving individual problems.</p>																																				