

Product data sheet

Elkem Microsilica® NG-56

Elkem ASA Silicon Products
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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® NG-56 is offered both as Undensified (NG-56 U) and Densified (NG-56 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	Weight%	Spec*
	SiO ₂ (diff.)	typical 94.5
	C _{free} **	max. 1.5
	Fe ₂ O ₃	max. 0.5
	Al ₂ O ₃	max. 0.5
	CaO	max. 0.7
	MgO	max. 0.5
	K ₂ O	max. 0.7
	Na ₂ O	max. 0.4
	H ₂ O ***	max. 1.0
	Properties	Spec*
	Loss on Ignition	% max. 2.0
	Coarse Particles >45µm	% max. 1.0
	pH-value	6.5-8.5
	Bulk density ***	
	Undensified NG-56 U	kg/m ³ 280-400
	Densified NG-56 D	kg/m ³ 600-800
	<small>* Test methods are available upon request ** C in SiC is not included *** When packed</small>	
Packaging	<p>The product is available in 25 kg small bags and in 400 kg 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>	