

Product data sheet

Elkem Microsilica® HQ

Elkem ASA Silicon Products
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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.

Features Elkem Microsilica® HQ is offered both as Undensified (HQ-U) and Densified (HQ-D).

- Benefits**
 - Improved flow – easier to cast
 - Improved particle packing - denser castables
 - Gel-bonding
 - Improved hot-strength properties

Chemical analysis & physical data	Weight%	Spec*
	SiO ₂ (diff.)	typical 96.3
	C _{free} **	max. 0.8
	Fe ₂ O ₃	max. 0.2
	Al ₂ O ₃	max. 0.5
	CaO	max. 0.4
	MgO	max. 0.5
	K ₂ O	max. 0.5
	Na ₂ O	max. 0.4
	SO ₃	max. 0.5
	Cl	max. 0.1
	H ₂ O ***	max. 0.8
	Properties	Spec*
	Loss on Ignition	% max. 1.5
	Coarse Particles >45µm	% max. 1
	pH-value	5.5-7.5
	Bulk density ***	
	<u>Undensified</u> HQ-U	kg/m ³ 250-350
	<u>Densified</u> HQ-D	kg/m ³ 450-650

* 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 various sized 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:
[Silicon based materials | TDS/SDS Finder | Elkem.com](#)

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/ 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.