

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. 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® 971 is offered both as Undensified (971-U) and Densified (971-D).		
Benefits	 Improved flow – easier to cast Improved particle packing - denser castables Gel-bonding Improved hot-strength properties 		
Chemical analysis & physical data	Weight% SiO ₂ (diff.) C _{free} *** Fe ₂ O ₃ Al ₂ O ₃ CaO MgO K ₂ O Na ₂ O P ₂ O ₅ SO ₃ Cl H ₂ O **** <i>Properties</i> Loss on Ignition Coarse Particles >45µm pH-value Bulk density **** Undensified 971-U Densified 971-U Densified 971-D * Test methods are available upon requ * Typical values are for guidance only ** Typical values are for guidance only	Spec* max. 0.8 max. 0.1 max. 0.3 max. 0.4 max. 0.2 max. 0.3 max. 0.3 max. 0.3 max. 0.10 max. 0.3 max. 0.10 max. 0.5 Spec* % max. 0.8 % max. 0.5 5.5-7.8 kg/m ³ 250-350 kg/m ³ 450-550	Typical** 97 0.59 0.07 0.20 0.29 0.18 0.22 0.25 0.04 0.17 0.01 0.20 Typical** 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	Avoid dust generationStore material properly, protected from moisture and contamination		
Health, safety & environment	Please consult our Product Safety information on our website: 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 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.		

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