

# Product data sheet

## Emsac® 500E Slurry

### Concrete applications

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**Description** Emsac® 500E is an aqueous suspension of Elkem Microsilica®, certified to EN 13263 'Silica fume for concrete'. In use, Elkem Microsilica® improves the performance of concrete and mortar formulations.

**It acts physically to optimise particle packing of the concrete or mortar mixture and chemically as a highly reactive pozzolan.**

**Applications** Emsac® 500E is supplied as an aqueous suspension (slurry) with a solids content of 50% by mass and is easy to handle and pump. Batch Emsac® 500E into the concrete mixer and mix thoroughly ensuring full dispersion. Dosage varies depending on application. Contact Elkem for information and advice.

#### Chemical & physical data

Property	Unit	Value
SiO <sub>2</sub>	%	Minimum 85.0
SO <sub>3</sub>	%	Maximum 2.0
Cl	%	Maximum 0.3
Free CaO	%	Maximum 1.0
Free Si	%	Maximum 0.4
Loss on ignition	%	Maximum 4.0
Specific surface area	m <sup>2</sup> /g	Minimum 15.0 and Maximum 35.0
Pozzolanic activity index	%	Minimum 100
Dry mass content	%	50 ± 2

*For typical analysis of minor elements, please contact our Elkem representative.*

**Packaging** The product is available in 200 litre drums, 1 m<sup>3</sup> containers and bulk road tanker. Please contact our representative for more details.

**Storage and handling** Emsac® 500E is a stable product. However, to prevent the natural process of segregation, the product should be regularly agitated to remain homogeneous. Emsac® 500E should not be allowed to freeze as this renders the product unfit for use.

**Health, safety & environment** Refer to Product Safety Information (PSI) document on our website: [www.elkem.com](http://www.elkem.com)

**Quality assurance** Elkem Silicon Products management system for development, processing and supply of EMSAC® is certified to ISO 9001:2015. The chemical and physical properties of Emsac® 500E are regularly tested in accordance with EN 13263.

**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 reducing embodied carbon emissions. For further information, please visit [www.elkem.com/sustainability/](http://www.elkem.com/sustainability/) or contact us to learn more about our sustainability roadmap.

**Additional Information and contact** See additional Elkem data sheets and technical papers on our website: [www.elkem.com](http://www.elkem.com)  
 All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for their application.