

Elkem Microsilica® 920 ASTM

Concrete applications – Product data sheet

1. Description

Elkem Microsilica® 920 is a dry silica fume powder certified to ASTM C 1240 'Standard Specification for Silica Fume Used in Cementitious Mixtures'. In use, Elkem Microsilica® 920 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. Elkem Microsilica® 920 is available in two forms: Undensified (920 U), bulk density typically 200 to 350 kg/m³; and Densified (920 D), bulk density typically 500 to 700 kg/m³

2. Application

Suitable for all concrete and mortar applications where the benefits of silica fume are required:

- Higher compressive strength
- Increased durability - Longer service life
- Better rheology - Control segregation & bleed

Batch the product into the concrete mixer and mix thoroughly ensuring full dispersion. Dosage varies depending on application. Contact Elkem for information & advice.

3. Storage & handling

Elkem Microsilica® 920 should be stored in dry conditions and not exposed to moisture.

4. Quality control

Elkem Silicon Materials' management system for development, processing & supply of Elkem Microsilica® is certified to ISO 9001.

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5. Chemical & physical properties

The properties of Elkem Microsilica® 920 are regularly tested in accordance with ASTM C 1240.

Property	Unit	Value
SiO ₂	%	Minimum 85.0
H ₂ O	%	Maximum 3.0
Retained on 45µm sieve	%	Maximum 10.0
Loss on ignition	%	Maximum 6.0
Specific surface area	m ² /g	Min. 15.0
Pozzolanic activity index	%	Minimum 105

6. Packing

The product is available in 25 kg bags, various other size bags and bulk road tanker. Please contact our representative for more details.

7. Health, safety & environment

Refer to product safety information (PSI) document on Elkem website: elkem.com

8. Additional information

See additional Elkem data sheets and technical papers on our website: 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.

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