

# Grade 920 for construction

C2-01  
Product

### General

Elkem Microsilica® Grade 920 is dry silica fume available in two main forms:

- **Undensified - 920 U**, with a typical bulk density of 200 - 350 kg/m<sup>3</sup>
- **Densified - 920 D**, with a typical bulk density of 500 - 700 kg/m<sup>3</sup>

### Packaging

The products are supplied in a range of packaging:

- 25 kg paper bags
- Big bags in a variety of designs and sizes depending on product and production plant.
- Bulk in road tanker

Special packaging can be supplied on request.

### Quality Control

Elkem Materials is certified according to ISO 9001.

The chemical composition and physical properties are regularly tested in accordance with international standards.

### Conformance to Standards

Elkem Microsilica® Grade 920 conforms to the mandatory requirements of the relevant standards from :

- **American Society for Testing and Materials**
- **European Committee for Standardisation**

Mandatory chemical and physical requirements	ASTM C1240 - 03		EN 13263 : 2005	
	Spec.	Frequency	Spec.	Frequency
SiO <sub>2</sub> (%)	> 85,0	400 MT	> 85	weekly
SO <sub>3</sub> (%)			< 2,0	weekly
Cl (%)			< 0,3	weekly
Free CaO (%)			< 1,0	weekly
Free Si (%)			< 0,4	monthly
Alkalies (as equivalent Na <sub>2</sub> O, %)	Report	400 MT		
Moisture (%)	< 3,0	400 MT		
Loss on Ignition, LOI (%)	< 6,0	400 MT	< 4,0	weekly
Specific surface (BET - m <sup>2</sup> /gram)	> 15	3200 MT/3 months	> 15 & <35	monthly
Bulk density (kg/m <sup>3</sup> )	Report	400 MT		
Pozz. Activity Index (%) - 7 days accelerated curing	> 105	3200 MT/3 months		
Pozz. Activity Index (%) - 28 days normal curing			> 100	monthly
Retained on 45 micron sieve (%)	< 10	400 MT		
Variation from avg. retained on 45 micron (%-points)	< 5	avg. of last 10 tests		
Density (kg/m <sup>3</sup> )	Report	400 MT		

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