

Elkem Microsilica® 940

Gypsum board applications – Product data sheet

1. Description

Elkem Microsilica® Grade 940 is a dry silica fume available in two forms: Undensified and Densified. In use, it acts physically as a filler and chemically as a highly reactive pozzolan.

A key ingredient in many construction materials, Elkem Microsilica® is used in gypsum boards to improve fire performance. It delays board shrinkage and retains board core strength in fire conditions improving overall board properties and durability.

2. Chemical properties

Property	Unit	Typical value
SiO ₂	%	> 90.0
H ₂ O	%*	< 1.0

Test methods available on request. Typical values for guidance only. *When packed.

3. Physical properties

Property	Unit	Typical value
Retention on 45µm sieve	%	< 1.5
Bulk density U	kg/m ³ *	200 - 350
Bulk density D	kg/m ³ *	500 - 700

Test methods available on request. Typical values for guidance only. *When packed.

4. Packing

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

5. Storage & handling

Elkem Microsilica® Grade 940 should be kept in dry storage. Products that have been subjected to moisture and allowed to dry again may result in inferior performance.

6. Quality assurance

Elkem Silicon Materials is certified to ISO 9001. The chemical and physical properties of Elkem Microsilica® are regularly tested.

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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