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TECHNICAL DATA SHEET

Flexisil™ 14-40

Technical Overview

Flexisil 14-40 is an alkaline, aqueous nanoparticle dispersion of amorphous colloidal silica. This dispersion is sodium stabilized and the silica particles have a negative surface charge. The silica particles are discrete and have a slightly rough, spherical shape.

Key Functionality

- Broad pH stability
- Binder and densification
- Flocculant
- Low sodium content
- Surface modification

Applications

- Inorganic Binder
- Refractory
- Catalyst
- Coatings
- Concrete uses
- Precision investment casting (PIC)
- Oilfield services
- Vacuum-formed refractory shapes

*Typical Properties

PROPERTY	VALUE
Appearance	Hazy to white liquid, aqueous colloidal dispersion
Wt. % SiO ₂	38.5 - 41.5
Surface Area (m ² /g)	160 - 260
pH (@20°C)	10.1 - 10.8
Storage	Perishable if frozen
Shelf Life	12 months from date of manufacture

* Typical properties do not represent specifications.

Packaging and Handling

Refer to the Safety Data Sheet (SDS) for information on the safe use, handling, and disposal of this product. Keep container tightly sealed.

Store and transport Flexisil at temperatures above 5°C (41°F) and below 35°C (95°F). Freezing of the product causes irreversible silica precipitation. Excess heat causes permanent silica gel formation.

Available in Bulk and IBC.

DOT Classification: Not regulated.

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