COLLOIDAL-SIL™ (NS14)40

High Solids Colloidal Silica

DESCRIPTION

COLLOIDAL-SIL™ (NS14)40 is a sodium-stabilised aqueous dispersion of amorphous silica nanoparticles developed for industrial applications requiring high silica content, excellent dispersion stability, and high binder performance. The negatively charged silica particles provide outstanding stability while delivering excellent performance in refractory, catalyst, polishing, and specialty coating applications.

KEY FEATURES

- Investment Casting
- Refractory Binders
- Catalyst Manufacture
- Precision Polishing
- Concrete Densification
- Paper Manufacture
- Coatings & Inks
- Surface Treatments

APPLICATIONS

- High solids content
- Excellent inorganic binder
- High surface activity
- Excellent dispersion stability
- Low viscosity
- Consistent particle size
- High silica content
- Excellent abrasion resistance

TYPICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Silica (SiO_2), %wt.	39–41
Average Particle Size, nm	10–16
Density (25°C), g/cm³	1.278–1.295
pH	9.0–10.5
Alkali (Na_2O), %wt.	≤0.50
Viscosity, mm²/s	8–12
Surface Area, m²/g	250
Appearance	Translucent Liquid

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Specialty Chemical Experts

LIMITED WARRANTY INFORMATION.
PLEASE READ CAREFULLY.

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This document is subject to revision without notice as new data becomes available.

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PACKAGING

- 200 L drums
- 1,000 L IBCs
- Bulk flexitanks

STORAGE & HANDLING

COLLOIDAL-SIL™ (NS14)40 is best stored in dark, closed tanks made of non-rusting materials such as plastic or coated steel. Uncoated metallic tanks or piping should be avoided.

Store at 0–40°C. Protect from freezing and direct sunlight. Keep containers sealed after use. Shelf life is 12 months from the date of manufacture. Product should be mildly agitated before use.

SAFETY

COLLOIDAL-SIL™ (NS14)40 is a stable sodium-stabilised form of synthetic amorphous silica dispersed in water. Refer to the Safety Data Sheet (SDS) for detailed information regarding safe handling, storage, transport, and regulatory compliance.