COLLOIDAL-SIL™ (NSE10)30

Silane-Modified Colloidal Silica

DESCRIPTION

COLLOIDAL-SIL™ (NSE10)30 is a silane-functionalised colloidal silica dispersion developed for advanced coating, composite and surface treatment applications. The silica nanoparticles are surface modified to provide enhanced compatibility with organic matrices, improved adhesion, and superior dispersion stability in solvent and water-based systems.

KEY FEATURES

- ISilane surface modified
- Excellent epoxy compatibility
- Improved adhesion
- Excellent dispersion stability
- High reactive silica content
- Low viscosity
- Enhanced abrasion resistance

APPLICATIONS

- Epoxy Flooring - Reinforcement and adhesion
- Industrial Coatings - Scratch resistance
- Composites - Nano reinforcement
- Adhesives & Sealants - Reinforcing additive
- Surface Treatments - Improved durability
- Ceramics - Binder

TYPICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Silica (SiO_2), wt.%	28.0–30.0
Average Particle Size, nm	9–12
Density (25°C), g/cm³	1.18–1.20
pH	2.0–11.0
Na_2O, wt.%	≤0.50
Viscosity, mm²/s	≤10
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

Store at 0–40°C. Protect from freezing and direct sunlight. Keep containers sealed. Shelf life is 12 months.

SAFETY

For more information, refer to the Safety Data Sheet (SDS). Approval of sample is recommended before placing an order.