

GEO40™ SOL-1030Na (FL)

Geo40™ SOL-1030Na (FL) is a sustainably derived aqueous dispersion of amorphous silicon dioxide nanoparticles. The alkaline dispersion contains small sized colloidal silica particles at 30% SiO₂ concentration in water. The particles have a negatively charged surface (anionic) which is stabilized by sodium hydroxide.

RECOMMENDED APPLICATIONS

The product can be used in a wide variety of applications, such as:

- Manufacture of fabricated metal products (refractories and investment casting)
- Manufacture of electronic products (precision polishing)
- Textile treatment
- Manufacture of pulp, paper and paper products (drainage aid)
- Coatings and inks
- Catalyst binder
- Antislips and anti-soil treatments
- Other applications where a small particle size colloidal silica is required

CHARACTERISTIC PROPERTIES

Specification*	Range	Target Value	Unit
Average particle size	7.0 – 10.0	8.5	nm
Solids	29.0 – 32.0	30.5	w/w %
pH	9.4 – 10.2	9.8	pH
Density	1.191 – 1.211	1.201	kg/L
Surface area	272 – 388	320	m ² /g
Free Alkalinity (as Na ₂ O)	0.35 – 0.65	0.50	w/w %
Viscosity	2.0 – 12.0	7.0	cP
Biocide		200	mg/kg

*Special Customer related specifications can be agreed upon

TECHNICAL DATA SHEET

PACKAGING INFORMATION

Geo40™ SOL-1030Na is available in the following packaging amounts:

- 240kg drum
- 1200 or 1250kg Intermediate Bulk Container (IBC)
- 22.3MT shipping container with bladder

HANDLING & STORAGE

Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling. Avoid breathing aerosols and mists (also dust from dried-down product). Wash contaminated clothing before reuse and before the colloidal silica dries.

Keep container tightly closed. Transportation and storage in closed original container. Store at temperatures above 2°C (35°F) and below 43°C (110°F) to avoid irreversible gel formation or silica precipitation.

Protect from heat and direct sunlight. If storage tanks are located outdoors, choose a shaded location or erect a sunscreen over the containers.

Protect from frost. If freezing temperatures are likely, storage containers should be equipped with steam coils and lagging.

Shelf life (in unopened original packaging): 15 months.

HEALTH, SAFETY & ENVIRONMENT

Full HSE information is available by requesting a SDS from any Geo40 representative or by contacting the Sales department at sales@geo40.com

Not considered dangerous goods nor deemed hazardous material by the transport regulations.

TO ORDER MATERIAL, OR FIND OUT MORE

Please contact: sales@geo40.com

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