

TECHNICAL DATA SHEET

GEO40™ SOL-1425DI (FL)

Geo40™ SOL-1425DI (FL) is a sustainably derived aqueous dispersion of amorphous silicon dioxide nanoparticles. The acidic dispersion contains small-sized colloidal silica particles at 25% SiO₂ concentration in water. The particles are neutrally charged at pH 2.3.

RECOMMENDED APPLICATIONS

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

- Where low sodium ion concentrations are required.
- Where low pH compatibility is required
- Other applications where a small particle size colloidal silica is required.

CHARACTERISTIC PROPERTIES

Specification*	Range	Target Value	Unit
Average particle size	10.5 – 13.5	11.5	nm
Solids	24.0 – 26.0	25.0	w/w %
pH	2.0 – 3.0	2.3	pH
Density	1.155 – 1.170	1.162	kg/L
Surface area	260 – 202	237	m ² /g
Alkali Ion (Na)	<200	<100	ppm
Alkali Ion (K)	<200	<100	ppm
Viscosity	0.0 – 2.5	1.2	cP
Biocide	0.5 – 1.0	0.75	mg/kg

*Special Customer related specifications can be agreed upon.

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PACKAGING INFORMATION

Geo40[™] SOL-1425DI (FL) is available in the following packaging amounts:

- 1250/1200kg 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 the dried-down product). Wash contaminated clothing before reuse and before the colloidal silica dries.

Keep the 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 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): 12 months.

HEALTH, SAFETY & ENVIRONMENT

Full HSE information is available by requesting an 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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