

TECHNICAL DATA SHEET

GEO40™ SOL-1440NH₃ (COMMERCIAL SAMPLES ONLY)

Geo40™ SOL-1440NH₃ is a sustainable geothermal water derived colloidal silica stabilized with ammonia. An alkaline dispersion of 13.5 nm colloidal silica at 40 % SiO₂ concentration in water. The particles are negatively charged and have a high specific surface area. Ammonia is added to increase the pH and stability while maintaining moderate sodium levels.

The product can be used in a wide variety of applications such as metals and refractories, paper and textiles treatment, coatings and inks, or other applications where a small particle size colloidal silica is required, and low sodium is desired.

TYPICAL PROPERTIES

Tests	Target Value	Units
Particle size	13.5	nm
Silica (as SiO ₂)	40.0	w / w%
pH	9.7	pH
Density	1.288	kg/L
Conductivity	4.5	mS/cm
Surface area	203	m ² /g
Free Alkalinity (as Na ₂ O)	Less than 0.08	w / w%
Viscosity	Less than 20.0	cP
Accelerated Life Test	Pass	80°C / 7 days
Visual Appearance	Clear to Opaque	

TO ORDER MATERIAL, OR FIND OUT MORE

Please contact: SALES@GEO40.COM

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