

Product Data Sheet

API 13 Drilling Grade Starch (API 13A / ISO 13500)

Description

Description	API 13 Drilling Grade Starch is a chemically modified, pregelatinized starch manufactured and tested to API 13A / ISO 13500 specifications for use as a fluid-loss control additive in water-based drilling muds. It is especially valued in saltwater, high-salinity and high-temperature drilling environments where bentonite alone provides insufficient fluid-loss control.
Applications	Fluid-loss control additive in water-based drilling muds Saltwater/high-salinity and high-temperature drilling fluid systems Workover and completion fluids Well cementing spacer fluid formulation
Grade	API 13A / ISO 13500 Certified Drilling Grade
CAS No.	Primarily starch (9005-25-8), chemically modified/pregelatinized

Key Benefits

1. Certified compliance with API 13A / ISO 13500 for reliable oilfield fluid-loss performance
2. Effective fluid-loss reduction across saltwater and high-temperature drilling environments
3. Rapid, complete hydration supporting fast mud-system preparation
4. Consistent viscosity and performance batch to batch, critical for rig-site reliability

Chemical Analysis & Physical Data

Typical Specification

Parameter	Test Method	Unit	Specification (API 13A / ISO 13500)
Fluid Loss Reduction	API 13A / ISO 13500 Filtration Test	%	Min. 90
Viscosity (Fann 35, 600 rpm)	API 13A / ISO 13500 Rheology Test	–	Within API-specified slurry viscosity range
pH (1% Solution)	pH Meter	–	5.0 – 7.0
Moisture	Oven-Drying Method	wt%	Max. 13.0
Residue/Insolubles	Gravimetric Method	wt%	Max. 3.0
Particle Size	Sieve Method	–	Through 100 mesh
Appearance	Visual	–	White to off-white powder

Packaging

Packaging 25 kg Kraft Paper Bags (PE-lined)
500 kg / 1,000 kg Jumbo Bags (FIBC)
Custom packaging available on request.

Storage & Handling

1. Store in a cool, dry, well-ventilated warehouse away from moisture
2. Keep bags sealed until point of use to prevent moisture pickup and microbial spoilage
3. Stack on pallets, away from direct ground contact
4. Use appropriate PPE (dust mask, goggles) when handling – avoid dust generation

Quality Assurance

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1. Every batch is tested against the full API 13A / ISO 13500 specification before dispatch
 2. A batch-specific Certificate of Analysis (COA) accompanies each shipment, reporting fluid-loss reduction, viscosity and moisture against this TDS
 3. COA available on request prior to shipment for buyer pre-approval
 4. Third-party inspection (SGS/Intertek) can be arranged on request for regulated-market shipments

Disclaimer: The information provided in this document is based on our current knowledge and is intended as a general guide. Ochnology Solution Pvt. Ltd. reserves the right to modify specifications without prior notice. Buyers are advised to conduct their own testing for specific applications. A batch-specific Certificate of Analysis (COA) is available on request for each shipment.