

Product Data Sheet

Drilling Starch – API 13A Grade

Description

Description	Drilling Starch is a high-quality preserved polysaccharide derivative used to provide rheology stability and filtration control in all types of water-based drilling fluid systems. It is a non-ionic natural polymer and is highly effective in all waters, including high-salinity and high-hardness brines. It meets API 13A specifications.
Applications	Filtration control across the full range of water-based drilling fluid systems Workover, completion and packer fluids requiring salt-tolerant filtration control High-salinity and high-hardness brine systems (KCl, NaCl, MgCl ₂ , CaCl ₂) Wellbore stabilisation in water-sensitive/shale formations
Grade	Drilling-Grade Starch (Preserved) – Meets API 13A Specification
Chemical Nature	Non-ionic, preserved polysaccharide (starch) derivative

Key Benefits / Features

1. Provides an economical method of filtration control
2. Effective across the full range of water types, including KCl, NaCl, MgCl₂ and CaCl₂ brines
3. Stabilises mud rheology
4. Provides wellbore stability and filtration control
5. Non-damaging to the producing formation
6. Contains preservatives to resist bacterial degradation in the mud system
7. Performs effectively over a wide pH range

Physical and Chemical Properties

Typical Specification (meets API 13A)

Sr. No.	Characteristics	Test Method	Specification
1	Physical State	Visual	White to cream coloured free flowing powder, free from visible impurities
2	Moisture Content	API RP 13B-1 / 13B-2	10% Maximum
3	pH	API RP 13B-1 / 13B-2	8 – 11
4	API Fluid Loss, cc in 4% Salt Water	API RP 13B-1, Sec. 6	10 ml Maximum
5	Fann Dial Reading @600 RPM in 4% Salt Water	API RP 13B-1, Sec. 5	18 Maximum
6	API Fluid Loss, cc in Saturated Salt Water	API RP 13B-1, Sec. 6	10 ml Maximum
7	Fann Dial Reading @600 RPM in Saturated Salt Water	API RP 13B-1, Sec. 5	20 Maximum
8	Residue Greater than 2000 Microns	API RP 13B-1, Sieve Test	No Residue

Packaging

Packaging	25 kg Moisture-Proof Multiwall Paper/PP Woven Bags (with PE liner)
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	1,000 kg Jumbo Bags (FIBC, moisture-proof liner) Custom packaging available on request.
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Storage & Handling

1. Store in a cool, dry, well-ventilated warehouse away from direct sunlight and moisture
2. Keep bags/containers tightly sealed at all times until point of use – product is a preserved organic polymer and can absorb moisture if left open
3. Stack on pallets, off the floor, away from walls, to prevent moisture ingress
4. Typical shelf life: 12 months from date of manufacture when stored as recommended, in original unopened packaging

Quality Assurance

1. Every batch is tested against the specification above before dispatch
2. A batch-specific Certificate of Analysis (COA) accompanies each shipment
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.