

Reatrol

(Modified Starch)

Reatrol is a high-quality modified starch intended for filtration control in fresh and mineralized water-based drilling muds.

Typical Physical Properties

Physical appearance	Off-white powder
Specific gravity	1.5
pH (1% solution)	5-6
Solubility in water	Soluble
Bulk density	400-550 kg/m ³

Applications

High-quality modified starch ReaTrol is used in fresh and mineralized drilling muds for filtration control. It has a high rate and degree of dissolution in cold water at the mud production stage.

Retains the desired stabilizing ability to filter drilling mud in mineralized muds with a calcium content. Thermostable at temperatures up to 120°C; the thermal stability can be increased to 140°C by increasing the mineralization and/or adding stabilizing agents, if necessary.

Used in muds for drilling-in and completion of wells. Completely soluble in hydrochloric acid treatments or biodegradable over time under downhole conditions.

Provides minimum contamination of the producing reservoir compared to other polymers.

Typical concentration is 14-20 kg/m³ depending on the mineralization, parameters and desired properties of the drilling mud.

Meets API Spec. 13A, Sec. 16, Starch.

Advantages

- Provides a thin and strong filter cake
- Can be used in both fresh and mineralized muds
- Completely soluble in hydrochloric acid treatments or biodegradable over time under downhole conditions

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Limitations

- Subject to thermal degradation at temperatures above 120°C
- Susceptible to bacterial decomposition. Use a bactericide.

Toxicity and Handling

Bioassay information is available upon request.

Handle as an industrial chemical, wearing protective equipment and observing the precautions described in the Material Safety Data Sheet (MSDS).

Packaging and Storage

The product is supplied in 25 kg multi-layer moisture-proof paper bags. Store in a well-ventilated place. Keep container closed. Keep away from heat, sparkles or fire sources.

Observe the rules for storing materials regarding packaging, attachment, and warehousing

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