

DRIL IN

Filtration Control Agent

Product Description

DRIL IN filtration-control additive is a special starch derivative intended for reducing HTHP filtrate loss for water base fluids. It is non-ionic in nature suitable for fluids containing salts or ion sensitive additives.

It is suitable for use in all water based fluids including drilling, completion and work-over fluids. When used in conjunction with a bridging agent such as sized calcium carbonate or sized salt, it provides a thin, pliable, easily removed filter cake. DRIL IN material acts synergistically with Xanthan gum polymer to enhance the Low-Shear-Rate Viscosity (LSRV).

Typical Physical Properties

Physical appearance	Off-white powder
Specific gravity	1.5
Solubility in water	Soluble

Application

DRIL IN additive is used to reduce fluid loss in the sized salt system. It contributes to elevated LSRV compared to conventional fluid-loss additives. Unlike most Polyanionic Cellulose (PAC) or starch-base additives which thin the sized salt system, DRIL IN additive actually increases the LSRV.

DRIL IN additive can be used in most brine including seawater, NaCl, KCl, CaCl₂, NaBr and formate salt systems. It resists calcium contamination over a wide pH range and can be used at temperatures more than 300°F (149°C).

Advantages

- Provides a thin, pliable, easily removed filter cake which minimizes formation damage and facilitates cleanup during completion
- Unlike most Poly anionic Cellulose (PAC) or starch-base additives which thin the mud system, DRIL IN additive increases the LSRV.
- Helps control HTHP filtration at temperatures up to 375 °F (190 °C)
- Resists calcium contamination over a wide pH range
- Does not require a biocide and does not ferment
- Environmentally responsible, presenting no toxicity or ecological problems
- Cleans up readily following drilling, workover or completion operations

Recommended Treatment

DRIL IN additive concentrations range from 1 to 4 lb/bbl (2.85 to 11.4 kg/m³) for most applications.

Packaging and Storage

DRIL IN additive is packaged in 50-lb (22.7-kg) and 55-lb (25 kg), multi-wall, paper sacks.

Store in a dry, well-ventilated area. Keep container closed. Store away from incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking.

Important Note: These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and method of use of our product are beyond our control. We recommend that the prospective user determine the suitability of our material and suggestions before adopting them on a commercial scale.