

# N-DRIL™ HT PLUS™

## FILTRATION CONTROL ADDITIVE

### Product Description

N-DRIL™ HT PLUS™ filtration control additive is a cross-linked starch product intended for reducing HTHP filtrate loss for water based fluids, particularly in reservoir sections. N-DRIL HT PLUS filtration control additive is suitable for use in all water-based fluids including drilling, completion, and work-over fluids. It has minimal damage characteristics and is readily removed with acid or N-FLOW™ delayed acid generators. When used with oxygen scavengers or within formate brines, N-DRIL HT PLUS filtration control additive is effective up to 300°F (149°C).

### Applications/Functions

N-DRIL HT PLUS filtration control additive, when used with properly sized bridging/weighting particles, can:

- » Provide filtration control
- » Minimize damage to the productive formation

### Advantages

- » Suitable for all water-based drilling fluids, workover and completions fluids including: sea water, potassium chloride, magnesium chloride, sodium chloride, sodium bromide, calcium bromide, and zinc bromide.
- » Resists calcium contamination over a wide pH range
- » Soluble in acids and oxidizers
- » Cleans up readily following drilling, workover, or completion operations
- » Environmentally responsible, presenting no toxicity or ecological problems

### Typical Properties

- » Appearance: White, free-flowing powder
- » Specific Gravity: 1.5

### Recommended Treatment

Disperse N-DRIL HT PLUS filtration control additive through conventional mud mixing equipment.

Concentrations range from 3-9 lb/bbl (9 - 26 kg/m<sup>3</sup>).

### Packaging

N-DRIL HT PLUS filtration control additive is packaged in 50-lb (22.7-kg) sacks.

N-DRIL, N-DRIL HT PLUS and N-FLOW are trademarks of Halliburton. © 2017 Halliburton. All rights reserved. Because the conditions of use of this product are beyond the seller's control, the product is sold without warranty either express or implied and upon condition that purchaser make its own test to determine the suitability for purchaser's application. Purchaser assumes all risk of use and handling of this product. This product will be replaced if defective in manufacture or packaging or if damaged. Except for such replacement, seller is not liable for any damages caused by this product or its use. The statements and recommendations made herein are believed to be accurate. No guarantee of their accuracy is made, however.