

ECOTROL HT

ECOTROL HT* filtration-control synthetic co-polymer can be used in all oil- or synthetic-base mud systems.

This product has been designed to be readily dispersible into a fluid system through standard mixing equipment, thus minimizing the potential for polymer ‘fish-eyes.’ The product provides high-temperature, high-pressure (HTHP) fluid loss control in extreme high temperature environments up to 260° C (500° F).

Typical Physical Properties

Physical appearance	Granular solid
Color.....	White
Specific gravity.....	1.03
Solubility.....	Non-soluble in water, soluble in polar & non-polar solvents

Applications

ECOTROL HT filtration-control additive can provide filtration control in all oil- or synthetic-base drilling fluid systems. ECOTROL HT additive reduces the HTHP fluid loss at temperatures up to 260° C (500° F). ECOTROL HT additive is an effective replacement for or supplement to VERSATROL HT* filtration-control additive. ECOTROL HT additive should be used to replace ECOTROL RD additive when temperatures exceed 190° C (375° F). ECOTROL HT filtration-control additive is added at concentrations between 5.7 to 11.41 kg/m³ (2 to 4 lb/bbl) depending on the fluid-loss-control requirements and the bottom hole static temperature. In some cases, higher concentrations of ECOTROL HT will be required for an efficient filtration control.

Based on unique technology, ECOTROL HT filtration-control additive has been modified to provide superior high shear stability minimizing polymer degradation for extreme HTHP applications.

When used in combination with the proper concentration and particle size of bridging agents for the formation drilled, ECOTROL HT improves the quality and thickness of the filter cake and also reduces the spurt loss tested with the Permeability Plugging Apparatus.

Advantages

- Reduces HTHP fluid loss in applications with temperatures up to 260° C (500° F)
- Improves filter cake quality when used in combination with proper bridging agents
- Easily mixes through the mixing hopper with less tendency to agglomerate (fish-eyes)

Limitations

- Overtreatment can cause increased viscosity in a high-density fluid
- Pilot testing is suggested prior to adding to the active system

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

ECOTROL HT filtration-control additive is packaged in 15 kg (33.1 lb) multi-wall, paper sacks.

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



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