



enventives

VEN-TROL 401™

RECOMMENDATIONS

To reduce problems associated with fluid sensitive shales.

To reduce seepage loss in microfractured shales and unconsolidated, low pressure sands.

To reduce balling of bits, stabilizers and collars in gumbo- type shales.

To reduce formation of mud rings.

To assist in freeing stuck drill pipe when added to oil or water as a spotting fluid concentrate.

To assist in minimizing torque and drag caused by differential sticking tendencies.

To provide lubricity.

TYPICAL TREATING METHODS

Ven-Trol 401™ can be readily mixed as a pretreatment to a water base mud in the desired quantities directly through the hopper. Concentrations necessary for shale stabilization, prevention of differential sticking, and seepage loss control will vary between 2-6 lb/bbl. Pilot testing will indicate the ease with which the water base mud will accept Ven-Trol 401™.

Slug treatments or pills are sometimes effective when "wiped" around. This technique provides a high concentration of Ven-Trol 401™ across the face of a microfractured shale section or a low pressure sand. By pumping a highly concentrated slug of Ven-Trol 401™ across these areas, a quicker and better seal is sometimes more likely to occur than in a lightly pretreated mud system. Where such pills are desired, they can be prepared by dispersing 20-50 lb/bbl of Ven-Trol 401™ in water brines, diesel oil, crude oils, mineral oils, or water base muds. Ven-Trol 401™ exhibits some of the excellent shale stabilizing qualities obtained with an oil mud while utilizing a water base mud system. Ven-Trol 401™ can be mixed easily and readily withstand standard rig equipment.

GENERAL INFORMATION

Ven-Trol 401™ is a multipurpose drilling fluid additive designed to stabilize shale, prevent cuttings dispersion and provide lubricity in both water and oil base muds.

A significant additional function of Ven-Trol 401™ is the ability to control seepage loss in low-pressure unconsolidated sands and to control fluid wetting of microfractured shale sections. Certain asphalt derivatives, hydrocarbon resins, and other types of nonaqueous base products have been shown in both laboratory and field tests to be effective in preventing filtrate invasion into microfractured shales and tend to stabilize such shales, particularly brittle shale.

Ven-Trol 401™ brings an added dimension by incorporating an oil dispersible resin on a micronized fiber. The fibrous base provides a significant increase in seepage loss control, thereby improving the shale stabilizing agent of the oil dispersible resin.

Ven-Trol 401™ is effective in preventing differential sticking of drill pipe in drilling fluid systems, particularly in low pressure and/or depleted sands. By filtering into the wall cake, it provides effective sealing properties as well as improved wall cake lubricity.

Ven-Trol 401™ has been pretreated to make it readily and easily dispersible in water base systems. No additional dispersants need be added. Ven-Trol 401™ is dispersible in both oil and water. It exhibits little solubility, however, in either diesel oil or water, except at elevated temperatures. As the temperature increases or the aromatic content of the oil is increased, some increase in the solubility of Ven-Trol 401™ will be observed.

PACKAGING

Ven-Trol 401™ is packaged in 25 lb moisture proof Kraft paper bags. Prices for special packaging such as export requirements will be quoted on request.

TYPICAL PROPERTIES

Form	: Grayish black fibrous powder
Composition	: Resin-coated micronized cellulosic fiber
Dispersibility	: Readily disperses in oil or water

PRECAUTIONS

See the Safety Data Sheet for more detailed information concerning storage, handling, transportation, disposal and safety requirements.