CALOVIS HT

**CALOVIS** HT synthetic polymer is a specially formulated additive designed for use as a fluid-loss reducing and rheology stabilizing agent in the ENVIRONMENTAL NT system and other high-temperature water-base drilling fluids.

It is an excellent additive for high-temperature high-pressure (HTHP) filtration control and rheological stabilization for fluids subjected to high temperatures.

**Typical Physical Properties**

- **Physical appearance**: Off-white powder
- **Solubility in water**: Soluble
- **pH**: 6 – 8 (1% Solution)
- **Specific gravity**: 1.39

**Applications**

CALOVIS HT additive is used in water-base drilling fluids to stabilize rheology and improve filtration control. The effect of CALOVIS HT additive is most evident in fluids exposed to higher temperatures.

CALOVIS HT additive is a thermally resistant synthetic polymer that will contribute to and assist in stabilizing the rheological properties of HTHP fluids up to 500 degF (260 degC).

CALOVIS HT polymeric additive also provides additional filtration control up to 500 degF (260 degC).

CALOVIS HT additive is designed to be effective at relatively low concentrations and is easily mixed in both freshwater and saline environments. The performance of CALOVIS HT synthetic polymer is not compromised by the presence of low levels (<2,000 ppm) of hardness.

CALOVIS HT additive may be added to the system through the mixing hopper. Depending on viscosity and fluid-loss requirements, 2 to 6 lb/bbl (5.7 to 17 kg/m³) may be required. For improved mud system and product performance, the pH should be maintained at 9.5 or greater.

Pilot testing prior to adding product is recommended.
Advantages
- Can improve thermal stability of whole mud system
- HTHP filtration control
- Non-fermenting
- Chrome-free
- Easy to mix
- Helps maintain the integrity of cuttings
- Reduces differential sticking tendencies
- Improves rheological profile without excessively thickening the fluid
- Stable to greater than 500 degF (260 degC)

Limitations
- Foaming may occur when added in salty fluids or fluids with low solids content.

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
CALOVIS HT is packaged in 50-lb (22.7-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.