

## INFORMATION

# THERMO-TROL-FL

SYNTHETIC FILTRATION AND RHEOLOGY STABILIZER

### DESCRIPTION

THERMO-TROL-FL is a synthetic polymeric material of medium to high molecular weight. The product functions to control water loss in a variety of water-base drilling fluids, while stabilizing viscosity and gel strengths. THERMO-TROL-FL also exhibits excellent thermal stability. The product is available in dry and liquid forms.

### APPLICATION

THERMO-TROL-FL is useful in freshwater and certain brackish water muds, especially low-solids and polymer systems, ranging from unweighted to high density. Low concentrations of THERMO-TROL-FL effectively reduce water loss. A secondary benefit is improvement of mud rheological properties, especially after exposure to heat and circulation.

THERMO-TROL-FL is stable and effective to temperatures in excess of 400° F/204° C. This characteristic makes the product especially useful in high-temperature drilling fluids.

### RECOMMENDED TREATMENT

Normal treatments range from 0.2 to 2.0 ppb (0.57 to 5.7 kg/m<sup>3</sup>). For best results, calcium and magnesium should be controlled below 400 mg/L. However, in some applications hardness above 800 mg/L has been tolerated with success. Salt (NaCl) content above 10,000 mg/L may reduce performance. Dosages given herein apply to dry product.

### PACKAGING

THERMO-TROL-FL is normally packaged in 50 lb or 25 kg multi-layer bags with moisture barrier. THERMO-TROL-FL LIQUID is available on request, in a variety of container sizes.

THERMO-TROL-FL is a Messina trademark