



# THERMO-SEAL

HYDROCARBON (SULFONATED ASPHALTIC) SHALE INHIBITOR

## DESCRIPTION

THERMO-SEAL is added to water base drilling fluids to help control sloughing shales, improve hole stability, and reduce torque and drag. The product acts as a sealant by physically plugging micro-fractures and fissures in shales, reducing their tendency to slough due to water wetting and filtrate invasion. Due to its plastic, deformable nature, THERMO-SEAL coats the borehole with a hydrocarbon film that reduces torque and drag. THERMO-SEAL also helps control HT/HP fluid loss.

THERMO-SEAL comes in two varieties:

- THERMO-SEAL - A finely ground selected asphaltic resin that is not, by itself, water dispersible, but will generally disperse in the mud system. This product is often dissolved in diesel or mineral oil prior to addition to the mud system. THERMOSEAL is also applicable to oil base or invert base drilling fluids as a fluid loss reducing agent.
- THERMO-SEAL-T - A finely ground specially processed (surface treated) asphaltic that is readily dispersible in water and in water base muds.

## RECOMMENDED TREATMENT

Normal concentrations of THERMO-SEAL range from 2 to 6 ppb.

## PACKAGING

All grades of THERMO-SEAL are available in either 25-kg or 50 lb net, multi-layer, export quality paper bags.

THERMO-SEAL is a Messina trademark

