



Technical Data Sheet

HEC Liquid

Product Description

HEC LIQUID is a non-ionic high molecular weight hydroxyl ethyl cellulose (HEC) designed specifically to enhance the rheological properties of water-based and polyvalent brine fluids.

Applications:

Viscous Circulating System or Pill 1.) Mix 1 to 3 quarts HEC per barrel of fluid to produce the desired viscosity. 1 Quart = 32 – 36 sec/qt 2 Quart = 45 – 60 sec/qt 1.5 Quarts = 36 – 45 sec/qt 3 Quarts = 60 – 90 sec/qt B.)

For Fluid Loss Control 1.) Mix Calcium Carbonate with HEC at a pound/quart ratio, 2lbs. Calcium Carbonate and 2 quarts HEC per barrel should provide a water loss of 10 – 12 cc's. C.)

Lost Circulation Pill (20bbl pill) 1.) Mix 10 gallons HEC in base water. 2.) Mix 20, 50lb bags of graded Calcium Carbonate for severe losses. Mix 10, 50lb bags of graded Calcium Carbonate for seepage losses. 3.) Add defoamer if needed. 4.) Spot mixture at loss area.

Treatments: HEC LIQUID is recommended for fresh water, seawater, and saturated salt water systems. Functional viscosity is attained from 0.5 to 2.5 lb/bbl. HEC is used in the following applications: Speed muds, rapid viscosifier, drilling, low solids and brine fluid systems, completion and work-over fluids, special applications in fracturing fluids, cementing and stimulation.

KEY BENEFITS

- Provides superior viscosities.
- Is ideal for work-over and completion fluids.
- Yields faster than dry polymers.

Key Properties

Color	Tan
Physical Form	Liquid
Sg	1.02
pH	Neutral