

MESUCO-HEC

HYDROXYETHYLCELLULOSE POLYMER

DESCRIPTION

MESUCO-HEC is a high-quality technical grade hydroxyethylcellulose polymer of high molecular weight. MESUCO-HEC is nonionic, and functions in virtually all types of water and brines, including fresh, saturated salt, KCl, calcium chloride, and various bromide brines. The product is a white to off-white powder.

APPLICATION

MESUCO-HEC is used primarily as a thickening agent or viscosifier for workover/completion fluids and drilling fluids. Because MESUCO-HEC contains pure grade HEC, it is 100% water-soluble and virtually 100% acid-soluble.

This excellent solubility renders MESUCO-HEC non-damaging to sensitive producing formations.

RECOMMENDED TREATMENT

MESUCO-HEC should be added to all fluids slowly, using a hopper to achieve good dispersion and shear. Completion brines should be sheared and stirred until a clear, smooth solution is formed. Dosage range may vary depending upon water or brine type, and upon application. Typical dosage range is 0.5 to 3.0 ppb (1.4 to 8.6 kg/m³).

For best initial dispersion, adjust water or brine pH to approximately 7.0-8.0 before adding MESUCO-HEC. After all MESUCO-HEC has been added to the fluid and well dispersed, raising pH to 9.0-9.5 will accelerate polymer yield.

For packer fluids or other long-term static loading applications, it is best to add a preservative (such as CIDE-COR) to the MESUCO-HEC fluid to prevent eventual bacterial degradation of the polymer. In these applications, it is also advisable to treat the fluid with 0.5 ppb (1.4 kg/m³) REDI-pH to establish a stable, buffered pH of approximately 10.0. This will provide best long-term stability and thermal resistance.

PACKAGING

MESUCO-HEC is packaged in multi-layer bags with moisture barrier, containing 50 lb or 25 kg net weight.

MESUCO-HEC is a Messina trademark