



EcoOilField-C-3000

Hydroxyethyl Cellulose

Chemical Name: Hydroxyethyl cellulose

Brand Name: EcoOilField C-3000

CAS NO.: 9004-62-0

Typical Physical Properties

EcoOilField C-3000 is a non-ionic water-soluble polymer designed specifically to increase the viscosity of water-based fluids used in workover and completion operations. The resulting polymer solutions are clear, viscous and residue-free.

Application

EcoOilField C-3000 is used to viscosity single salt CaCl₂ brines and all monovalent-salt brines such as NaCl, NaBr, KCl, KBr, and NH₄Cl.

Oilfield fluids containing HEC exhibit high apparent viscosity, high yield point and low fragile gel strength. Its shear-thinning behavior known as pseudo plasticity help both increase penetration rates under high shear and provide excellent suspending action for optimum hole-cleaning under low shear while viscosity is regained.

Technical Data Sheet

Appearance	Off-white free flowing powder
Mole substitution degree, M.S	1.8–2.0
Solution viscosity, cps *	4000
Moisture content, % max.	10.0
pH, 1% solution	6.0–8.5
Bulk density (kg/m³)	450 - 550
*Measured by Brookfield viscometer, at 25°C, 1% aqueous solution	

Packing:

Packed in 25 kg or 50 lb paper sacks.