

POLYTROL

HIGH-PURITY NONIONIC POLYMER

DESCRIPTION

POLYTROL is a premium-grade high-viscosity hydroxyethylcellulose (HEC) polymer. The product is specially surface-treated to retard hydration sufficiently to allow high concentrations to be mixed without lumping. Its typical properties are:

Appearance	White Powder
Active Content	Greater Than 99%
Solubility	In Water of Any Temperature
pH of 2% Aqueous Solution	6 to 7

VISCOSITIES OF AQUEOUS SOLUTION*

Concentration, ppb	1.0	2.0	3.0	4.0
Apparent Viscosity	15.5	45.5	92.5	148
Plastic Viscosity	10	24	33	48
Yield Point	11	43	119	200

* FANN viscosities in fresh water at 20° C, dispersed at neutral pH, then pH raised to 9.0 and aged 16 hours. Initial viscosities are typically 90 to 95% of these values.

APPLICATION

POLYTROL is used as a thickener for clear water and brine fluids, as well as solids-laden aqueous fluids. Oilfield applications include workover fluids, gravel pack and other completion fluids, clay-free and clay-based drilling fluids, non-damaging drill-in fluids, fracturing fluids, and enhanced oil recovery. POLYTROL also finds application as a friction reducer and as a foam stabilizer. POLYTROL will thicken virtually any water or brine, and exhibits excellent stability to salts and shear. When broken with acid or enzymes, insoluble residues are very low.

HANDLING AND SAFETY

POLYTROL is essentially non-toxic and non-hazardous. Spilled product becomes very slippery when contacted by water. Spills should be cleaned up by flushing the area with water and brushing or sweeping.

PACKAGING

POLYTROL is packaged in 50 lb net bags with an internal moisture barrier.

POLYTROL is a Messina trademark