

XG-D Dispersible Polymer

Description

Xanthan Gum is a water-soluble polysaccharide, commercially produced by a distinct fermentation process of *Xanthomonas Campestris*. Xanthan Gum is a free-flowing granular powder.

Application

XG-D Polymer is used in wide variety of water-based drilling, workover or completion fluids as a rheology modifier to develop low-shear rate viscosity. It also provides optimum whole cleaning and enhances suspension properties.

Usage

XG-D Polymer should be added slowly through the hopper to prevent lumping. Time required for the product to yield to its ultimate viscosity depends on the salinity, temperature and Shear. The amount of the Viscosifier to be used will depend on the desired viscosity but normal dosage ranges from 0.5-2.5 lb/bbl (1.43-7.1 kg/m³) the concentration may be increased to 4lb/bbl (11.5 kg/m³) in case of difficult hole cleaning conditions.

Advantages

- It provides excellent suspension properties restricting the settlement of weighting agents and drilled cuttings.
- It is stable over a wide pH range and is effective in saturated brines as well as fresh and sea water base drilling fluids.
- Is resistant to bacterial fermentation.

Lab Results

Temperature °F	600 RPM	300 RPM	200 RPM	100 RPM	6 RPM	3 RPM
75	95	72.5	62	48	24	20

Safety and Handling

XG-D Polymer must be handled as an Industrial chemical, wearing protective equipment and observing the precautions as mentioned in the MSDS.