

INFORMATION

BIOVIS-D

DISPERSIBLE XANTHAN GUM VISCOSIFIER

DESCRIPTION

BIOVIS-D is a high molecular weight biopolymer, a high-purity xanthan gum produced by the action of a micro-organism, *xanthomonas campestris*, on carbohydrates. BIOVIS-D, which is specially treated to render it readily dispersible, is primarily a viscosity modifier for fresh to salt saturated makeup waters and is compatible with all water base drilling fluid additives.

Solutions of BIOVIS-D exhibit pseudoplastic rheological properties [i.e., the viscosity of the fluid will decrease with shear (e.g., at the bit nozzle) and immediately revert back to the original viscosity when shear is removed (e.g., in the annulus)]. Moreover, the viscosity of BIOVIS-D drilling fluids remains nearly constant from below freezing to 300° F static bottom hole temperature, in a pH range of 3 to 12, and the product is non-toxic as well as biodegradable.

APPLICATION

BIOVIS-D will build viscosity and gel structure in all water base systems. An outline of the advantages of this product are as follows:

- Since a very small quantity of BIOVIS-D is required to prepare a drilling fluid (e.g., 1 ppb compared to 20-25 ppb of bentonite), there is a tremendous saving in transportation, storage, etc.
- Low solids - high penetration rate drilling fluids can be prepared.
- Optimum hole cleaning and suspension qualities are obtained.
- The of particulate plugging and non-film forming characteristic has proven BIOVIS-D fluids to be excellent as a workover or completion fluid.

RECOMMENDED TREATMENT

From 0.5 to 1.5 ppb (1.4 to 4.2 kg/m³) to develop viscosity and gel strength. BIOVIS-D should be added slowly (20 to 30 minutes per lb bag) through the mud hopper utilizing maximum shear.

MISCELLANEOUS

Prices and delivery schedules can be obtained from any Messina office, representative or distributor.

PACKAGING

BIOVIS-D is packaged in 50 lb or 25 kg net heavy duty bags.

BIOVIS-D is a Messina trademark