

# INFORMATION

# **BIOVIS** XANTHAN GUM VISCOSIFIER

## DESCRIPTION

BIOVIS is a high molecular weight biopolymer, a high-purity xanthan gum produced by the action of a micro-organism, xanthomonas campestris, on carbohydrates. BIOVIS is primarily a viscosity modifier for fresh to salt saturated make-up waters and is compatible with all water base drilling fluid additives.

Solutions of BIOVIS 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 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 biodegradeable.

Form	Free-flowing off-white to cream
	colored powder
Active Content	100% Xanthan (less moisture)
Specific Gravity	Approx.1.50 (@ 20°C)
Solubility	Readily soluble in water

#### APPLICATION

BIOVIS 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 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 lack of particulate plugging and non-film forming characteristic has proven BIOVIS fluids to be excellent as a workover or completion fluid.

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#### **RECOMMENDED TREATMENT**

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

## PACKAGING

BIOVIS is packaged in 50 lb or 25 kg net heavy duty, Polyetheylene-lined bags.

**BIOVIS is a Messina trademark** 

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