

BIO-STAR D



BIO-STAR D is a cellulose-based natural polymer drilling fluid system that promotes borehole stability, exhibits excellent hole cleaning and cuttings suspension. BIO-STAR D is easily broken down with hypochlorite oxidizing agents or enzyme breakers.

Application

BIO-STAR D is designed for use in drilling operations where bentonite is not permitted and a biodegradable fluid is specified. BIO-STAR D can also be used with bentonite for added fluid loss control and hole cleaning

Advantages

- Effective viscosity promotes efficient bore hole cleaning and cutting suspension
- Excellent dispersion and hydration (once pH adjusted to 7.5 - 10)
- Maintains borehole integrity without restricting natural porosity and permeability
- Easily broken following well screen installation with hypochlorite or enzyme breakers

Typical Usages

Typical Amounts of BIO-STAR D Added to freshwater			
Drilling Application	lb/100gal	lb/bbl	kg/m ³
Consolidated	2.5 - 4.5	1 - 1.5	3 - 5
Unconsolidated	5 - 7	2 - 3	5.5 - 8.5
Increase Yield Point	0.25	0.1	0.3

Properties

Physical Appearance	White, granular powder
Specific Gravity	1.2
pH (2% slurry solution in water)	6.5 - 7.5
Salinity Tolerance (Chlorides)	60,000 ppm

Packaging

BIO-STAR D is packaged in 50-lb (22.7 kg), multi-wall sacks at 50 sacks per pallet