



# BORZAN<sup>®</sup> D

## Product Information

### Description

**BORZAN<sup>®</sup> D** is a biopolymer designed for use in vertical or horizontal drilling applications and may be used as a stand-alone drilling fluid or as an additive to enhance properties of conventional bentonite based drilling fluids.

As a stand-alone drilling fluid **BORZAN<sup>®</sup> D** is a highly concentrated xanthan gum allowing for lower addition rates than most bio-polymers. **BORZAN<sup>®</sup> D** fluids are particularly effective in vapor extraction and other environmental wells where it can be flushed out of the bore with minimum residual wall-cake once the drilling operation is completed.

**BORZAN<sup>®</sup> D** may also be added to conventional bentonite based drilling fluids to enhance gel strengths, control filtrate and inhibit clays. **BORZAN<sup>®</sup> D** is highly effective in horizontal applications where higher gel strengths and low down hole pressures are desirable.

### Characteristics

With its ability to “shear thin”; mud made with **BORZAN<sup>®</sup> D** tends to shear thin at higher velocities and thicken at lower velocities. This allows for maximum pump performance to move solids away from the bit area and superior suspension of solids in the hole. **BORZAN<sup>®</sup> D** fluids offer tremendous advantages over bentonite-based fluids as they:

- Optimize bit hydraulics increasing penetration rates
- Reduce circulating pressure losses
- Minimize drill solids settling during static conditions
- Lower overall drilling costs due to concentrated formulation
- Excellent hole cleaning capabilities

### Application

Lbs per 100 Gallons	Marsh Funnel Viscosity	PV/YP Ratio	Gel Strengths 10 Sec/10 Min	6/3 RPM's
2.40	39 sec/qt	4/10	6/8	5/4
4.75	53 sec/qt	6/28	16/22	18/17
7.00	94 sec/qt	9/42	23/31	26/23

Clean-up and removal of this fluid can easily be done by circulating clean water to displace the **BORZAN<sup>®</sup> D** fluid at the completion of the job. Any remaining **BORZAN<sup>®</sup> D** will biodegrade leaving no residual wall cake. **BORZAN<sup>®</sup> D** is more stable than other natural polymers such as guar gum.

### Packaging

**BORZAN<sup>®</sup> D** is conveniently packaged in a resealable water proof plastic jug containing 25 pounds.