

# MAX BORE HDD

The MAX BORE\* HDD system is a proprietary, blended, high-yielding Wyoming bentonite supplied as a single-sack product used especially in boring-fluid applications.

The MAX BORE HDD system provides suspension, wellbore stability and filtration control. The system also helps reduce torque and drag for water-base applications and is designed to minimize environmental impact.

### Typical Physical Properties

Physical appearance .....	Light tan/gray-green powder
Specific gravity.....	2.3–2.6
Bulk density.....	48–52 lb/ft <sup>3</sup> (769–833 kg/m <sup>3</sup> )

### Applications

MAX BORE HDD system provides suspension, improves wellbore stability, controls filtration, and helps reduce torque and drag in boring-fluid applications. It is a cost-effective product for achieving viscosity for hole cleaning, gel strength for cuttings suspension and transport, wellbore stability, fluid-loss control and filter-cake quality in freshwater and seawater applications. Typical concentrations of the MAX BORE HDD system range from 15-45 lb/100 gal (18-54 kg/m<sup>3</sup>).

### Advantages

- One-sack system provides ease of mixing and reduces the number of products required to prepare boring fluid
- Hydrates more than other types of clays and is best for generating viscosity for hole cleaning, developing gels for suspension and controlling filtration
- Unique size, shape and high surface area provide superior filtration characteristics
- Provides lubricity and wellbore stability for ease of drilling and stability of water-sensitive clays and shales
- Non-toxic and environmentally safe

### Typical Amounts of MAX BORE HDD Additions Added to Freshwater

Drilling Application/Desired Results	lb/100 gal	lb/bbl	kg/m <sup>3</sup>
Normal drilling	20-25	8.5-10	25-29
Clay environments	10-15	4-6	12-18
Gravel/rock/cobble	25-30	10-13	29-37

### Limitations

Performance is reduced in salty (>10,000 mg/L Cl-) or hard (>240 mg/L Ca++) waters due to decreased hydration.

### Toxicity and Handling

Bioassay information is available upon request.

Handle as an industrial chemical, wearing protective equipment and observing the precautions described in the Material Safety Data Sheets (MSDS).

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### **Packaging and Storage**

The MAX BORE HDD system is packaged in 50-lb (22.7-kg) multi-walled sacks, 56 per pallet.

Store in a well-ventilated area away from sources of heat or ignition.



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