

# HYDRAUL-EZ®

## HORIZONTAL DIRECTIONAL DRILLING FLUID



### DESCRIPTION

HYDRAUL-EZ is a high-yield, 200 mesh sodium bentonite with a special dry polymer additive. It is designed to maintain borehole integrity in horizontally drilled boreholes. HYDRAUL-EZ is certified to NSF/ANSI Standard 60, Drinking Water Treatment Chemicals - Health Effects.

### RECOMMENDED USE

HYDRAUL-EZ is specially designed for conditions encountered in angle and horizontal drilling. It can be used for all types of freshwater mud rotary drilling and as a jacking lubricant.

### CHARACTERISTICS

- Concentrated for high yield
- Eliminates clay and shale swelling, bit balling, and sticking problems
- Forms a tight, thin filter cake in unstable formations
- Maintains borehole integrity in horizontal and vertically drilled holes
- Mixes quickly
- Requires less material due to low fluid loss properties

### MIXING AND APPLICATION

Mixing ratios are based on the use of freshwater. Water purity will affect bentonite performance. For best results, make-up water should be pre-treated with SODA ASH to a pH of 8.5-9.5. HYDRAUL-EZ should be added slowly through a jet/hopper mixer.



**BULK DENSITY**  
54 lbs/ft<sup>3</sup> (0.86 kg/L)

**PACKAGING**  
50 lbs (22.7 kg) bags, 48 per pallet. All pallets are plastic-wrapped.

DRILLING FLUID HYDRAUL-EZ mixing ratios in lbs (kg) per 100 gallons (1 m <sup>3</sup> ) of water		
Condition	Lbs of HYDRAUL-EZ	% Solids
Normal Conditions	20-30 lbs (22.5-36 kg)	2.3-3.5%
Sand and Gravel	30-40 lbs (36-47 kg)	3.5-4.6%
Fluid loss Control	40-60 lbs (47-72 kg)	4.6-6.7%



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