

ProVis MMX™

Bentonite Enhancer

ProVis MMX is a proprietary metal oxide and xanthan gum blend formulated to enhance gel strength, suspension, and solids carrying capacity in bentonite based HDD fluids. This product develops a highly thixotropic, shear-thinning fluid that forms a strong gel at rest while flowing easily under shear. This behavior allows ProVis MMX to suspend sand and rock efficiently while maintaining manageable pump pressures and stable borehole conditions.

ProVis MMX is intended for use in bentonite-based HDD fluid systems where enhanced suspension and gel strength are needed without excessive fluid viscosity. Proper water conditioning and mixing order are critical for optimal results. ProVis MMX performs best in water treated with soda ash (pH Boost) to a pH of 10-11, which eliminates the effects of hard water. Alternatively, ProDyne can be used in place of pH Boost with ProVis MMX in hard or mineral-laden water to ensure consistent hydration and performance. ProDyne is not needed when pH Boost is used.

ProVis MMX is best suited for all ground types, especially sand intensive and mixed formations where high suspension, gel strength, and borehole stability are required. Anywhere bentonite is used, ProVis MMX can be added to improve down hole conditions.

BENTONITE ENHANCER

PRIMARY BENEFITS

- Higher suspension of cuttings and rapid gel development
- Reduced pumping pressures due to shear thinning behavior
- Improved borehole stability leading to less frac-outs
- Reduced torque and drag during drilling and pullback



DOSAGE

1. EZB (5 lb) treats 500 gallons of water
2. Use with approximately 100-150 lb bentonite per 500 gallons
3. Maintain MMX concentration at approximately 2% by weight of bentonite



IF STARTING WITH AN EMPTY TANK

1)	Fill tank with water to desired capacity
2)	Use soda ash (pH Boost) to adjust water pH to 10-11, mix for several minutes
3)	Add bentonite and allow it to fully hydrate
4)	Add ProVis MMX through the top of the hopper
5)	Mix for 5-10 minutes to ensure full activation

IF ADDING INTO A TANK ALREADY FILLED TO TARGET CAPACITY:

1)	Ensure fluid is circulating via pump or mixing jets
2)	Confirm bentonite is fully hydrated
3)	Add ProVis MMX through the top of the hopper
4)	Mix for 5-10 minutes for full activation



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10/2026