

**AES DRILLING FLUIDS**

## BENEFITS

- Provides unique shear thinning properties to the EnerSEAL HDD<sup>†</sup> system
- Stabilizes system from contaminants and minimizes dilution requirements
- NSF Certified

## APPLICATIONS

- EnerSEAL HDD drilling fluid system for horizontal directional drilling/trenchless applications
- Add to ES VIS HDD at a ratio of 1:4 to 1:8 by weight

## PHYSICAL PROPERTIES

- Appearance: White/off-white, or gray powder
- Bulk Density: 36 - 42 lb/ft<sup>3</sup>
- Dispersion: Forms a cloudy dispersion in water

# ES HDD<sup>†</sup>

ES HDD is a proprietary mix of metal oxides, conditioners, and control agents used to prepare the EnerSEAL HDD system.

## Treatment Recommendations

ES HDD is a dry powder used to prepare the EnerSEAL HDD system. It is added with ES VIS HDD<sup>†</sup> at a ratio of 1:8 to 1:4 by weight in fresh water.

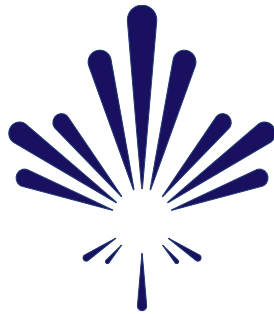
To prepare 1000 gallons of EnerSEAL HDD, pre-hydrate 238 to 357 pounds of ES VIS HDD in a clean mixing tank. Add 119 to 178 lbs of ES HDD and 24 to 71 lbs of ESM<sup>†</sup> HDD.

Pilot test anionic products or thinners with EnerSEAL HDD prior to addition. ES HDD is mildly hygroscopic, meaning a slight reduction in activity will occur over time in high humidity environments.

## Packaging and Handling

ES HDD is available in 50 lb multi-walled sacks. Handle ES HDD as an industrial chemical, wearing protective equipment and observing precautions as described in the Safety Data Sheet (SDS).





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