

Product Summary

Turbo-WBS is a chrome-free lignite derivative designed to provide improved filtration control and stabilize rheological properties in high temperature water base muds. Turbo-WBS was developed based upon a new lignite derived resin. It is compatible with most water-based drilling mud additives.

Physical Properties:

Solubility: Soluble in water
Density (lb./gal.): 8.5
Appearance: Black Powder
pH: 8.5

Recommended Treatment

High Temperature (above 250°F): 6-10 ppb.

Comparison Testing:

	Base (12.5 ppg. WBM)	Base + 6 ppb Soltex	Base + 6 ppb Turbo WBS
Spurt	0.3	0.4	0.2
7.5 min	3.1	1.6	0.9
30 min	9.5	3.0	2.6
Total Loss (x2)	19	6.0	5.2
% Reduction	NA	68%	73%
PV	16.2	17.7	17.1
YP	5.2	6	5.4
10 sec / 10 min	4.8 / 6.0	3.0 / 4.1	2.5 / 3.4

Wellbore Stability Benefits:

- Effective emulsifier in oil-in-water muds and will provide some emulsification and dispersing properties for liquid lubricants.
- Can be used to stabilize salt-contaminated muds.
- Particularly effective as a high temperature filter loss additive in water base mud systems.
- Highly effective HTHP water loss reduction results in thin, tough, lubricated filter cake development.
- Can be used to disperse hydrocarbon-based lubricants in water base muds.
- Decreases borehole erosion, washouts and key-seating tendencies.
- Reduces BHA balling problems.

Handling and Storage

Proper PPE should be worn while handling this product. Please review SDS before using.

Packaging

Turbo-WBS is available in 50 lb. sacks.