

# TURBO-CHEM<sup>®</sup>

INTERNATIONAL, INC.

The Wellbore Stability Specialists

# Turbo-WBS

Wellbore Stabilizing Sulfonated Asphalt Replacement

## DESCRIPTION

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

## TYPICAL PHYSICAL PROPERTIES:

- Appearance: Black Powder
- pH: 8.5
- Solubility: Soluble in water

## RECOMMENDED TREATMENT:

High Temperature (above 250F): 6-10 ppb  
Actual concentration required depends on the mud system, bottom hole temperature, and other factors

## Comparison Testing:

	Base (12.5 ppg WBM)	Base + 6 ppb Soltex	Base + 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

## DRILLING FLUID ADDITION COMPATIBILITY:

Turbo-WBS is compatible in most all types and densities of water based drilling fluids.

## BENEFITS:

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

## HANDLING:

Available in 50 lb. sacks.

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