

# Soltex

(Drilling Specialties Company)

Soltex® Additive is a sodium asphalt sulfonate made water soluble by a unique sulfonation process. It is a versatile, total mud conditioner that stabilizes shale formations, significantly increases lubricity, and lowers HTHP water loss. Soltex® Additive enhances filter cake properties in both oil- and water-based muds.

### Typical Physical Properties

Physical appearance ..... Black powder  
 Specific gravity ..... 1.15

### Applications

Soltex is to be mixed in WBM using Conventional hopper when chlorides do not exceed 60,000 ppm. When adding to high salinity systems, pre-wetting Soltex® Additive with fresh water by adding through chemical barrel may give best results. Defoamer may be added to prevent surface foam.

Soltex® Additive is consumed on drilled solids and on the well bore. It is advisable to add 50% more one day following the initial treatment to ensure adequate concentration.

Application	Soltex Addition, kg/m3
Stabilize Shale Formation	9-17
Impart significant lubricity	3-9
Reduce torque & drag	3-9
Control HTHP fluid loss in water- & oil-based muds	6-17
Produce thin, strong, compressible wall cakes	6-11
Emulsify oil into water-based mud systems	2-9
Control shear strengths & increase thermal stability	6-17
General hole conditioning (differential sticking, etc.)	6-17

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## Advantages

- Controlled water and oil solubility to effect best chemical and physical performance
- Minimizes damage to productive formations
- Reacts with shale to prevent or stop sloughing and swelling
- Significantly increases lubricity; either alone or synergistically with small amounts of oils and synthetics
- Environmentally acceptable - is used on land and offshore
- Extremely temperature stable - does not have the softening point typically associated with unreacted asphaltic additives
- Inhibits dispersion of drilled solids
- Minimal and easily distinguishable fluorescence - does not hamper well logging or core analysis
- Will not leave oil slick, sheen or rainbow on water at offshore locations
- No emulsifiers needed to ensure proper mixing

## Limitations

- Soltex® Additive is consumed on drilled solids and on the well bore. It is advisable to add 50% more one day following the initial treatment to ensure adequate concentration.
- Mix into salts containing fluids with care, pre-soak in fresh water if needed. Can cause shakers screens blinding.

## Toxicity and Handling

For specific instructions on handling, refer to the MSDS

## Packaging and Storage

Soltex is packed in 50 lb (22.7) multiwall paper sacks

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