



Technical Data Sheet

SHALE X

Product Description

SHALE X is a concentrated blend of sulfonated asphalt, surfactant-treated uintaite and other high quality shale inhibitors. SHALE-X was designed for use in WBM, where reactive shale formations tend to create wellbore stability problems.

Applications:

This multi-faceted product was designed primarily for use in water-based muds where troublesome shale formations tend to create wellbore stability problems. The highly anionic portion of SHALE-X limits the ability of shale formations to hydrate and destabilize. The mechanical sealing components of SHALE-X plug shale pore throats and micro-fractures, thereby reducing invasion by whole mud and mud filtrate into these formations. SHALE-X inherently imparts substantial friction reduction characteristics, not only in water-based muds, but also in diesel, mineral and synthetic oil-based muds.

Treatments:

To emulsify oil into water-based mud systems, use 1.0-6.0 ppb. To impart significant lubricity or to reduce torque and drag, use 2.0-6.0 ppb. To stabilize shale formations, control HTHP fluid loss in water-based muds & oil-based muds, control wall cakes, control shear strengths and increase thermal stability, and for general hole conditioning, use 4.0-8.0 ppb

KEY BENEFITS

- **Protects shale formations from hydration and destabilization.**
- **Reduces Filter Cake thickness.**
- **Reduces API and HTHP fluid loss properties.**

Key Properties

Color	Black to dark brown
Physical Form	Powder
Temperature stability	>400 F