



TEAMWORK ISN'T OPTIONAL. IT'S ESSENTIAL.

SABER PHALT™

Water-Soluble Shale Stabilizer & Filtration Control Additive

PRODUCT DESCRIPTION

SABER PHALT™ is a proprietary, engineered water-soluble polymeric additive designed to improve wellbore stability, enhance shale inhibition, and provide effective filtration control in water-based drilling fluid systems. The unique blend is formulated to stabilize reactive shale formations by reducing clay hydration, minimizing dispersion, and improving borehole integrity during drilling operations.

SABER PHALT™ provides effective control of both API and high-temperature/high-pressure (HTHP) fluid loss by forming a thin, low-permeability filter cake that limits filtrate invasion into permeable formations. Its multifunctional chemistry enhances drilling fluid performance while maintaining compatibility with conventional water-based mud systems.

The product readily disperses in water-based fluids and provides reliable performance across a wide range of drilling conditions. SABER PHALT™ is particularly effective in applications where shale stability, filtration control, and improved hole quality are critical to successful drilling operations.

KEY BENEFITS

- Provides effective shale stabilization and inhibition
- Reduces clay hydration and shale dispersion
- Improves API and HTHP fluid loss control
- Creates a thin, low-permeability filter cake
- Enhances wellbore stability and hole integrity
- Water-soluble formulation for easy incorporation and cleanup
- Compatible with a wide range of water-based drilling fluids

PACKAGING

SABER PHALT™ is supplied in 50 lb moisture-resistant bags, packaged 50 bags per pallet for convenient storage, transportation, and field application.

TYPICAL PROPERTIES

PROPERTY	TYPICAL VALUE
Appearance	Dark Brown to Black Powder
Specific Gravity	1.20 – 1.50 g/cc
Solubility in DI Water	75% Minimum
Treatment Range	2-6 ppb

PERFORMANCE EVALUATION

Test Concentration: 5 ppb SABER PHALT™

TEST	TEST METHOD	CONTROL	SABER PHALT™ (5 PPB)
API Fluid Loss (30 min)	API RP 13B-1	12.6 mL	4.3 mL
API Filter Cake (30 min)	API RP 13B-1	3/32"	1/32"
HTHP Fluid Loss (350°F / 500 psi / 30 min)	API RP 13B-2	18.5 mL	6.2 mL
HTHP Filter Cake (350°F / 500 psi / 30 min)	API RP 13B-2	1/16"	<1/32"
Linear Swell (24 hr)	API RP 40	12.6%	4.8%

APPLICATIONS

- Shale stabilization and inhibition
- Fluid loss control for both API and HTHP conditions
- Improves borehole stability and reduces washouts
- Enhances overall drilling fluid performance
- Suitable for freshwater, brackish, and seawater systems