



## Technical Datasheet

# SHALE ENCAPSULATOR

### Description

Shale Encapsulator is a high-performance shale inhibitor which is used in water-based drilling fluids in order to provide shale stability while drilling through challenging high-reactive zones. Besides that, it can improve filtration properties of the mud. Shale Encapsulator can help to provide lubricity and reduce possibility of bit balling in the formations with lithology of sticky clay.

### Application

Main function of Shale Encapsulator is providing shale stability in problematic by encapsulating mechanism. Shale Encapsulator is compatible with most of the water-based drilling fluids. Also, some reduction in friction coefficient of filter cakes and improvement of rate of penetration are other advantages of using Shale Encapsulator.

### Advantages

- Compatible with most types of water-based drilling fluids
- Provides high shale stability
- Reduces filtration properties of fluid
- Minimize shale swelling and sloughing
- Compatible with Gilsonite or asphaltic inhibitors
- Improves penetration rates
- Helps with lubrication of the BHA
- Reduces bit balling possibility
- Encapsulates the drilled cuttings and increases cutting carrying capacity

### Limitations

- Using in calcium-based muds are not recommended.

### Treatment

It is recommended to use Shale Encapsulator in water-based muds with concentrations of 0.5 to 1% vol/vol. Periodic treatment of active drilling fluid while drilling is highly recommended.

### Typical Properties

Appearance	Milky viscous liquid
Specific Gravity (in 25°C)	1.0-1.2
pH	10-12
Shale Recovery	Min. 40 %

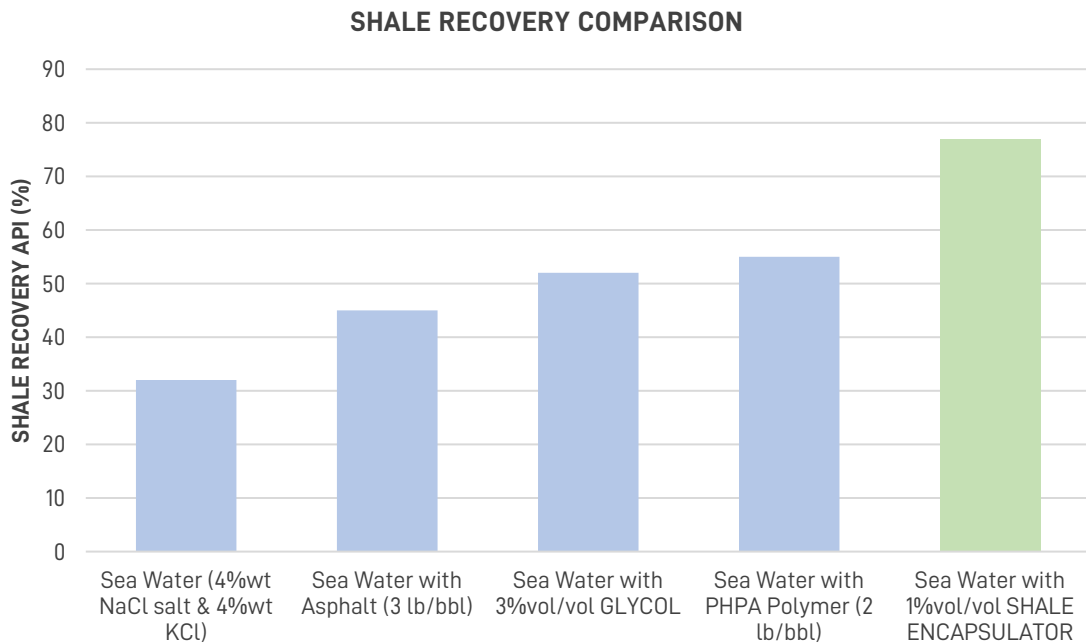


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### Performance Evaluation

Shale Encapsulator shows excellent shale inhibition performance comparing common shale inhibitors.



### Packaging

Shale Encapsulator is available in 5-Gal Drums.