

ENERGEXON

Non-Fluorescent, Non-Asphaltic Shale Stabilizer
An Alternative to Sulfonated Asphalt in Water-Based Drilling Fluids

PEFORM-X

At a Glance

PEFORM-X stands out as a non-fluorescent, non-asphaltic shale stabilizer that effectively substitutes sulfonated asphalt in water-based drilling fluids, without its environmental unfriendly properties whilst still maintaining all its beneficial attributes.

Applications

Water-based drilling fluids ranging from fresh water to any salinity levels

Compatibility

Enhancing drilling fluid properties without increasing viscosity or gel strength

Mixing

Added directly as a dry powder or pre-mixed in solution.

Handling

Handle as an industrial chemical, wearing protective equipment and observing the precautions described in the MSDS.

Packaging

50-pound, multiwall paper sacks

Normal Concentration

3-10.5 lb/bbl (8.6-30.0 kg/m³)

Challenging Conditions

> 10.5 lb/bbl (> 30.0kg/m³)

ENGINEERING

PEFORM-X is engineered through modifying high carbon alcohol esters to be partially water-soluble to achieve a balance between hydrophilic and lipo-philic properties, which play a pivotal role in the formation of a robust filter cake. Its ability to enhance filter cake quality, stabilize shales, control fluid loss, improve lubricity, and maintain fluid stability under various conditions makes it an invaluable component of modern drilling fluid formulations.

SOLUTION

Since its introduction in 1999, **PEFORM-X** has achieved cumulative sales exceeding 170,000 tons across various markets worldwide, including China, Iraq, and Kazakhstan.

It is fully capable of substituting asphalt-related products, with special emphasis on its unique significance when applied in non-fluorescent scenarios and environmentally sensitive areas.

ADVANTAGES



Stabilizes
Shale



Controls
Fluid Loss



Thermal Stability
Contribution



Enhances filter
Cake Quality



Improves
Lubricity

TYPICAL PROPERTIES

Appearance	White to tan powder
pH (3% solution)	7.0-9.0
Solubility in Water	≥60%
Solubility in oil	≥40%
HTHT Fluid Loss	≤25 ml/30min
LC50 (3% aqueous solution)	≥30,000 mg/L

ENERGEXON

CHEMICALS & FLUIDS



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