

SHALE-X®

ProductDataSheet

SHALE HYDRATION SUPPRESSANT - METHYLTRIMETHOXYSILANE

Description

SHALE-X® is a water soluble organic material based on methyltrimethoxysilane. Designed to suppress shales and clays hydration process – both cuttings and wellbore wall.

SHALE-X® forms a protective water repellent complex on the clay particles, prevents water invasion into the shale matrix. Prevents clay wetting, dispersion and swelling.

Low-gravity solids build-up is 3-4 times lower compared to the conventional KCl/Polymer mud. Density as well as rheological properties remain stable for extended drilling period, even when PDC bits are used.

Field cases show: 2300 m open hole sections were drilled in shale formation with MBT=28 kg/m³ in the end of the section. Not a single m³ of mud was dumped.

Applications/Functions

- extraordinary shale inhibition at minimal product concentration
- minimum solids build-up
- outstanding wellbore stability
- stable density and rheological properties
- easy circulation break without pressure surge

Advantages

- minimum mud dilution and mud volume needed
- thins mud rapidly at higher concentration – easy to use prior to cementing
- adds 20-30C to polymer temperature stability

Recommended treatment

2-3 kg/m³ (5-8 ppb). Can be added directly into the pit or through the mud hopper. Pilot testing is recommended.

Typical properties

Dark brown to black liquid

Handling

Please refer to the MSDS for specific instructions

Packaging

SHALE-X® is packaged in 200l drums

Disclaimer: Prior to using this product, the user is hereby informed and cautioned to make their own determination and assessment of the safety and applicability of the product for the specific job. It is the final responsibility of the user to ensure that the product is suitable and the information is applicable to the user's specific application.



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