

SHALE-X®DP

Product Data Sheet

Versatile dry powder humate-borosilicate blend - WBM shale inhibitor, fluid loss control agent, mild mud thinner

Description

SHALE-X®DP is a high-performance humate-borosilicate blend – shale inhibitor for water-based muds.

Acts by a synergistic interaction between the blend components – borates, humates and silicates blended at an optimum ratio.

While dissolved in water, immediately forms three-dimensional spatial structures on the active clay particles surfaces to form chemical “associates” to minimize their hydration and dispersion.

SHALE-X®DP particles dissolved in a mud filtrate react with the pore fluids cations to form a rubbery matter to seal-off pore-throats and microfractures.

It also acts by increasing the filtrate viscosity thus preventing it from shale matrix invasion.

SHALE-X®DP provides an outstanding wellbore stability even in sloughing shales sections.

Aids in bit-balling prevention (positive clay particles repulsion mechanism).

Applications/Functions

- seals-off pores and microfractures
- forms an impenetrable barrier on the wellbore wall, prevents pore-pressure transmission

- lowers API and HTHP fluid loss
- prevents solids build-up, stabilizes YP and Gels
- adds mild mud thinning effect, lowers thixotropic coefficient
- promotes wellbore stability

Advantages

- triple inhibition action – chemical and physical sealing
- works well in freshwater and high saline environment
- due to its anionic nature is compatible with the most known mud additives

Recommended treatment

3-10 kg/m³ (8,4-28 ppb). The product is normally added through the mud hopper. Pilot testing is recommended.

Typical properties

Free-flowing brown to black powder

Handling

Please refer to the MSDS for specific instructions

Packaging

SHALE-X®DP is packaged in 55lbs (25 kg) bags



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