# SHALE-X®DP

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

# Description

SHALE-X®DP is a high-performance humateborosilicate 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 threedimensional 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 micro-fractures.

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**

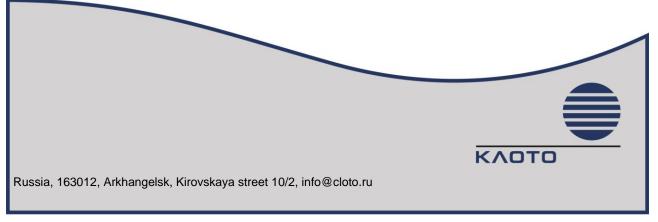
Free-flowing brown to black powder

# Handling

Please refer to the MSDS for specific instructions

# Packaging

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



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.