

Description

KAR-BEN is a premium grade non-treated bentonite used as viscosifier and fluid loss reducer in most water-base drilling fluids. It meets API 13A Section 4 specifications.

Typical Properties

Appearance : Light tan powder
pH (3% solution) : 6 - 8
Bulk Density : 750 - 900 kg/m³

Features and Benefits

KAR-BEN is used as a primary filter cake building filtration control and suspension agent in fresh water systems and has application in most water-base fluid systems.

KAR-BEN provides thin, impermeable and compressible filter cake in the wellbore.

KAR-BEN is a cost effective product for achieving viscosity.

Application

KAR-BEN is used to increase viscosity and reduce fluid loss in fresh and sea water-base drilling fluids.

Limitations

KAR-BEN becomes less effective in fluids containing calcium greater than 200 mg/l and chloride in excess of 5,000 mg/l. Calcium contamination is treated with using soda ash and sodium bicarbonate.

KAR-BEN should be prehydrated in fresh water when chlorides exceed 8,000 mg/l to obtain optimum yield.

KAR-BEN is also adversely affected in high pH and high calcium conditions. The fluid must be pretreated with SAPP, sodium bicarbonate and/or citric acid before drilling cement.

Treatment

Normal treatment levels range from 5 to 25 lb/bbl (14–70 kg/m³). The concentration will vary depending on the fluid composition as well as desired viscosity and suspension characteristics.

KAR-BEN is added slowly and uniformly through the mud hopper.

Packaging

KAR-BEN is supplied in 50 kg (110 lb) multi-wall paper sacks or in 1 MT big bag.