

Description

KAR-CMC LV is low viscosity sodium carboxymethyl cellulose used as primary fluid loss reducer in most water-base drilling fluids. It meets and surpasses ISO 13500, API 13A Section 9 and OCMA DFCEP 2 specifications.

Typical Properties

Appearance : white powder
pH (1% solution) : 7 - 9
Bulk Density : 550 - 650 kg/m³

Features and Benefits

KAR-CMC LV reduces fluid loss in water-base drilling fluids with minimum effect on viscosity.

KAR-CMC LV is effective in all types of fresh water-base and seawater drilling fluids.

KAR-CMC LV also acts as deflocculant when used with seawater fluids in concentrations less than 0.25 lb/bbl.

KAR-CMC LV inhibits hydration and dispersion of water sensitive shales and hence contributes to borehole stability and performance of solids-control equipment.

KAR-CMC LV has a good tolerance to divalent ions and is effective over a wide pH range.

KAR-CMC LV is not subject to bacterial degradation.

Application

KAR-CMC LV can be used as fluid loss control agent in freshwater and seawater-base drilling fluids.

Limitations

KAR-CMC LV is effective in drilling fluids with a total hardness less than 1,000 mg/l (as calcium).

KAR-CMC LV is less effective in salt water and is not generally used in systems containing greater than 50,000 mg/l chloride.

KAR-CMC LV is thermally stable up to 150 °C (300 °F). The temperature stability can be increased by 20 °C using KAR-POLY TS temperature stabilizer.

Treatment

Normal treatment levels range from 0.5 to 1.5 lb/bbl (1.43 to 4.28 kg/m³) in freshwater and 2.0 to 4.0 lb/bbl (5.71 to 11.41 kg/m³) in seawater systems. The concentration will vary depending on the drilling fluid composition and desired fluid loss. KAR-CMC LV readily disperses when added slowly and uniformly through the mud hopper.

Packaging

KAR-CMC LV is supplied in 25 kg (55 lb) multi-wall paper sacks.