

Description

KAR-MICA is used to combat lost circulation in both water and oil-base drilling fluids.

Typical Properties

Appearance : Shiny silver flakes
pH (3% solution) : Neutral
Bulk Density : 300 - 500 kg/m³

Particle Size Fine : 16 mesh to 100 mesh
Particle Size Medium : ¼ in. to 16 mesh
Particle Size Course : > ¼ in.

Features and Benefits

KAR-MICA is supplied in three grades: Fine, Medium and Coarse. The fine grade can be circulated, with only minimal losses on the shaker screens.

KAR-MICA can be used both in water-base and oil-base drilling fluids.

KAR-MICA has minimal effect on drilling fluid properties.

KAR-MICA is inert and not affected by other fluid additives, crude oil, diesel oil, brines or acids.

Application

KAR-MICA is used to combat lost circulation. In severe cases it is usually used in combination with fibrous and granular lost circulation materials.

Fine grade KAR-MICA F can be added to active system for seepage loss control while drilling as it can be circulated through a 20 mesh shaker screen. KAR-MICA is particularly useful to combat massive loss circulations anticipated through highly fractured carbonates, conglomerates and vugs. Shale shakers are usually by passed in situations where this grade mica is added to drilling fluid.

Limitations

KAR-MICA is not used in the production intervals due to its two important drawbacks. First, It interfaces with gamma ray logs adversely affecting the log results. Secondly, KAR-MICA is an inert material and insoluble in HCl acid and in oxidizing agents. This makes impossible the removal of damage due to mica invasion with matrix acidizing.

Treatment

Fine grade KAR-MICA is usually added at 5 to 10 lb/bbl (14.3 to 28.6 kg/m³) for seepage loss control. Medium and coarse grades are used as required frequently in conjunction with other lost circulation materials. In slug treatment, a 50-100 bbl pill of 15-30 lbs/bbl KAR-MICA is recommended depending upon the severity of loss circulation.

Packaging

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