

Description

KAR-CARB is high purity calcium carbonate (CaCO₃) used as bridging and weighting material in drilling, drill-in and workover/completion fluids.

Typical Properties

Appearance : White free flowing powder
Specific Gravity : 2.7 minimum
Sol. in 15% HCl : >98% at 24 °C (76 °F)

Features and Benefits

KAR-CARB is an acid soluble bridging and weighting material used for fluid loss and density control in all types of drilling, drill-in, workover and completion fluids.

Due to acid soluble nature of KAR-CARB, good clean-up is achieved with acidizing. Hence, KAR-CARB can be classified as non-damaging bridging and weighting material.

KAR-CARB is available in three particle size grades as fine, medium and coarse.

Application

KAR-CARB fine is used as weighting material in non-damaging, acid soluble drill-in, workover and completion fluids. On the other hand, KAR-CARB medium and coarse are used for bridging seepage control material.

Treatment

The amount of KAR-CARB fine needed to increase fluid density is calculated as follows:

In oil field units:

$$X = \frac{945 (W_f - W_i)}{22.5 - W_f}$$

Where:

X : Amount of KAR-CARB, lb/bbl
W_i : Initial fluid density, lb/gal
W_f : Final fluid density, lb/gal

In metric units:

$$X = \frac{2700 (W_f - W_i)}{2.7 - W_f}$$

Where:

X : Amount of KAR-CARB, kg/m³
W_i : Initial fluid density, (SG)
W_f : Final fluid density, (SG)

Packaging

KAR-CARB is supplied in 25 kg (55 lb) or 50 kg (110 lb) moisture-proof, multi-wall sacks. It is also available in 1MT big bag.