

CARB S

Weighting Material

Product Description

CARB S is an acid-soluble, bridging and weighting agent used in drilling, drill-in and workover/completion fluids. Calcium Carbonate is available in three grind sizes: Fine (F), Medium (M) and Coarse (C)

Typical Physical Properties

Physical appearance	White powder
Specific gravity	2.7-2.8
Solubility in water @ 212°F (100°C)	Minimal (0.0035 g/100 mL)
Solubility in 5% HCl	>98% at 76°F (24.4°C)

Application

CARB S is an acid-soluble bridging and weighting agent for controlling fluid loss and density. It can be used in fluids ranging from conventional oil-base and water-base drilling fluids to drill-in fluids. As a bridging agent and fluid loss additive, normal concentrations are in the 10 to 50 lb/bbl (29 to 143 kg/m³) range.

CARB S F (fine) is used as the standard weighting material. CARB S M (medium) and CARB S C (coarse) are used for bridging and seepage control or can be used as a weight material with a larger particle size. CARB S M and CARB S C are generally used in fluid-loss-control situations requiring a larger particle size than CARB S F. They are often used in lost-circulation and fluid-loss pills, with concentrations from 30 to 50 lb/bbl (86 to 143 kg/m³), to bridge highly permeable or fractured zones.

CARB S can also be added on a periodic basis for seepage control to limit losses (lost circulation and leak-off) to high-permeability formations. It is particularly effective when drilling with high differential pressures caused by an overbalanced condition or when drilling depleted zones. Treatments range from 2 to 10 sacks per hour when used as a preventative measure. For depleted zone drilling applications, CARB S is most effective when used in combination with a cellulose product.

Advantages

- Acid-soluble product which minimizes formation damage
- CARB S is available in Fine (F), Medium (M), and Coarse (C) grades, allowing the most appropriate particle size to be used
- Effective bridging agent, essentially inert and relatively insoluble, having a minimum effect on fluid properties
- Fine and medium grades that pass through most fine-mesh shale shaker screens
- Less viscosity and gels required for suspension than other weighting additives

Toxicity and Handling

Handle as an industrial chemical, wearing protective equipment and observing the precautions described in the Material Safety Data Sheet (MSDS).

Packaging and Storage

CARB S F, M and C are packaged in 50-lb (22.7-kg), and 55- and 110-lb (25- and 50-kg) multi-wall, paper sacks. Store in a tightly closed, original container.

Important Note: These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and method of use of our product are beyond our control. We recommend that the prospective user determine the suitability of our material and suggestions before adopting them on a commercial scale.