FLOW-CARB Series

Provide seepage control in water-based and invert emulsion drill-in fluids

Applications

- Reservoir drill-in fluids
- Conventional drilling fluids

Features and benefits

- Sized bridging material
  - Provides seepage loss control
- Acid soluble
  - Suitable for reservoir drilling
- Aids in filter cake development
  - Maintains wellbore integrity
- Can be used as a weighting agent
  - Works with high-density fluids
- Environmentally friendly
- Can be blended with other fluid additives to bridge producing formations

FLOW-CARB™ Series of additives from Baker Hughes are sized calcium carbonate blends used as bridging agents in water-based and invert emulsion reservoir drill-in fluids. The FLOW-CARB products facilitate accurate bridging design, matching particle size and pore throat size for optimized formation protection.

FLOW-CARB calcium carbonate is available in various size grades: 2, 5, 10, 20, 30, 40, 80, 250, 500, and 1000. The number in the product name indicates the d50 of the particle size distribution. The FLOW-CARB products can also be added or mixed together when a wider or intermediate particle size distribution is desired. FLOW-CARB 30 and smaller grades will safely pass through a production screen at typical usage concentrations.

Recommended treatment

Generally, FLOW-CARB sized calcium carbonate is added to a drill-in fluid at a treatment level of 30 to 40 lb/bbl (85.7 to 143 kg/m^3). In some reservoir applications, using less than 30 lb/bbl (85.7 kg/m^3) may compromise the rate of deposition and promote invasion. If much higher concentrations are used, screen blockage on flowback is a risk due to particle crowding.

FLOW-CARB calcium carbonate concentrations of 5.0 to 15.0 lb/bbl (14.3 to 42.9 kg/m^3) are usually sufficient to prevent excessive losses in drilling fluid applications.

Treatment concentrations of 20.0 to 50.0 lb/bbl (57.0 to 143 kg/m^3) are used in the preparation of pills to minimize high seepage losses while drilling.

Environmental information

For information concerning environmental regulations applicable to this product, contact the Health, Safety, and Environmental department of Baker Hughes.

Shipping

Transportation of the FLOW-CARB additive is not restricted by international or USA regulatory agencies.

Safe handling recommendations

Use normal precautions for employee protection when handling chemical products. See Safety Data Sheet (SDS) prior to use.

Packaging

FLOW-CARB products are packaged in 55-lb (25-kg) multi-walled bags.

Typical properties	
Appearance	White powder
Specific gravity	2.7
Acid solubility	98%