

SOLUFLAKE Series

Control circulation and seepage losses in drilling and completion fluid systems

Applications

- Permeable zones like gravel beds, vugular limestones, faulty cement jobs, or existing fractures
- Porous and fractured formations

Features and benefits

- Available in three grades ranging from fine to coarse
 - Controls seepage losses efficiently with fine grade
 - Overcomes severe mud losses with coarser grades
- Acid soluble
 - Helps protect the pay zone and facilitate well completion after drilling
- Effective in oil- or synthetic-based fluid systems
 - Does not affect emulsion
- Non-fibrous material, does not absorb water
 - Prevents elevated rheology and emulsion stability

The **SOLUFLAKE™ series of flaked calcium carbonates** from Baker Hughes is effective in controlling circulation losses and seepage in both drilling and completion fluids. The SOLUFLAKE calcium carbonate is available in three grades— fine (F), medium (M), and coarse (C).

Shale shakers are usually bypassed when coarser material grades are used. The SOLUFLAKE calcium carbonate is up to 99.5% soluble in 15% hydrochloric acid (HCl) and as such, is an excellent additive for drill-in fluids. SOLUFLAKE calcium carbonate is an excellent contingency additive for drill-in fluids such as the Baker Hughes **PERFFLOW™ drill-in fluid system**.

SOLUFLAKE calcium carbonate can be used in water-, synthetic-, or oil-based fluid systems. This product is particularly effective in oil or synthetic systems, since the material does not absorb water.

Recommended treatment

SOLUFLAKE series of calcium carbonates can be added at concentrations of 6.0 to 12.0 lb_m/bbl (17.2 to 34.3 kg/m³). Total loss of returns should be treated with high concentrations (30.0 to 40.0 lb_m/bbl [85.8 to 114.4 kg/m³]) of SOLUFLAKE M or SOLUFLAKE C calcium carbonate and spotted opposite the loss zone.

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 SOLUFLAKE calcium carbonate is not restricted by either international or United States regulatory agencies.

Safe handling

recommendations

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

Packaging

SOLUFLAKE calcium carbonate is packaged in 50-lb (22.7-kg) multi-walled bags.

Typical properties

Appearance	White flakes
Specific gravity	2.71
pH (5% solution)	8.4 to 10.2
Solubility in water	Insoluble
Acid solubility	> 98%