

GeoWASH filter cake remover and activation fluid

Simultaneously removes mud filter cake and expands the GeoFORM solution's shape-memory polymer

Applications

- Open-hole sand control completions using the GeoFORM solution
- Reservoirs with temperatures $\leq 200^{\circ}\text{F}$ (93°C) drilled using an oil-based drill-in fluid

Features and Benefits

- Water or oil-based drill-in fluid filter cake remover
 - Mediates near-wellbore damage
 - Water wets solids
 - Solubilizes oil from filter cake
- Expands Morphic shape-memory polymer media

The Baker Hughes **GeoWASH™ filter cake remover and activation fluid** effectively removes a water or oil-based filter cake, water wets solid surfaces, and removes emulsion damage. GeoWASH fluids also perform as an activation fluid for the Baker Hughes **GeoFORM™ conformable sand management solution**. The GeoWASH fluid combines the GeoFORM activating agent with an enhanced cake remover (ECR) for efficient wellbore cleanup and flow assurance. While completing its function as filter cake remover, the GeoWASH fluid also fully expands the GeoFORM solution's **Morphic™ shape-memory polymer media**.

The GeoWASH fluid can be prepared in a variety of base brines and is customized to match the components of the drill-in fluid for optimum filter cake removal.

Recommended treatment

The filter cake remover in the GeoWASH fluid is custom blended for each application. Lab testing is used to optimize breakthrough delay, cleanup, and the GeoFORM solution's expansion rate.

Environmental information

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

Safety and handling

Recommendations

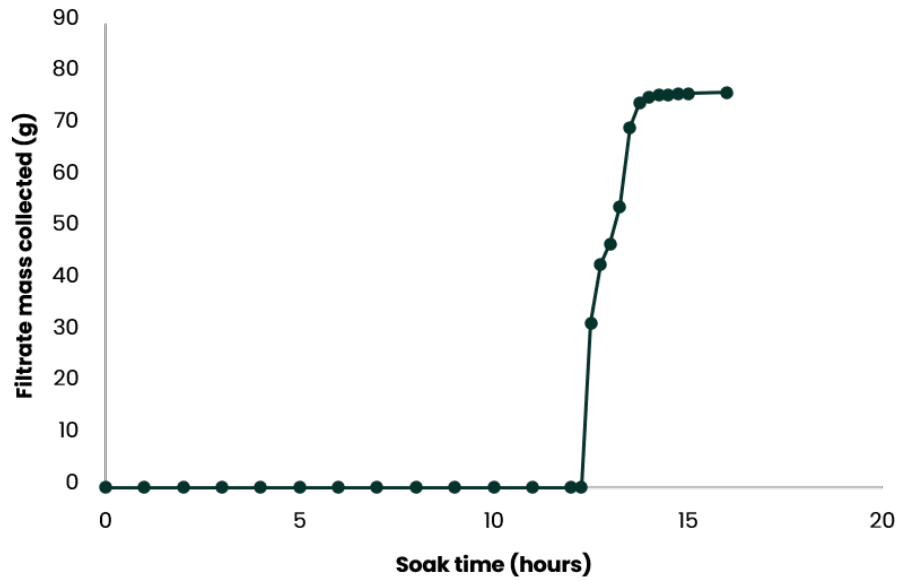
Use normal precautions for employee protection when handling chemical products. See Safety Data Sheet (SDS) prior to use.

Packaging

GeoWASH filter cake remover is usually prepared at the rig site but may be pre-mixed in 275-gal and 1-m³ intermediate bulk containers (IBCs).

Typical properties	
Appearance	Light yellow liquid
Specific gravity at 68°F (20°C)	1.0 to 1.2
Filter cake breakthrough delay	12 to 16 hours
GeoFORM solution expansion time	8 to 12 hours

GeoWASH breakthrough test



Delayed filtercake breakthrough allows GeoFORM to fully expand



GeoFORM foam expanded by GeoWASH



Filtercake residue after GeoWASH application and flowback