

ClayCare temporary clay stabilizer

Minimize formation damage to maximize productivity

Applications

- Aqueous-based completion and stimulation operations
- Water-based fracturing treatments in formations with known clay sensitivities

Features and Benefits

- Effective for temporary clay stabilization
 - Helps prevent shale softening and proppant embedment in shale reservoirs
 - Aids against permeability loss from swelling clays in sandstone reservoirs
- Provided as a liquid concentrate
 - Eliminates costly batch mixing and disposal problems associated with potassium chloride
- Low aquatic and mammalian toxicity; nonmutagenic
 - Mitigates environmental impact associated with conventional alternative products
- Qualified member of the SmartCare family of environmentally responsible solutions
 - Minimizes environmental impact without sacrificing performance
 - Increases transparency of chemical composition to stakeholders
 - Improves research and development efforts to proactively expand the Baker Hughes portfolio of environmentally responsible products

The Baker Hughes **ClayCare™ temporary clay stabilizer** is a low toxicity, biodegradable, and environmentally responsible technology used in aqueous-based completion and stimulation operations, and water-based fracturing treatments in formations with known clay sensitivities. Laboratory testing is recommended to determine appropriate concentrations for formations with more than 5% water-sensitive clays. The ClayCare clay stabilizer may be incompatible with some anionic additives.

This liquid concentrate can be used in batch or continuous mix operations where an effective clay stabilizer is required.

ClayCare stabilizers are used in Baker Hughes **SmartCare™ fluid systems**:

- **HydroCare™ slickwater systems**
- **AquaCare™ linear gel**
- **ShaleXcel™, Lightning™, and Lightning Plus borate-crosslinked systems**

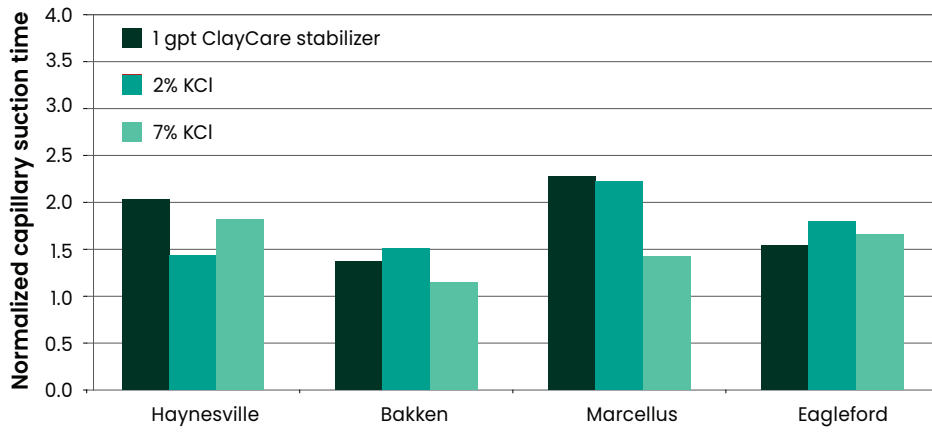
In addition, ClayCare stabilizer is also compatible with virtually all other slickwater and crosslinked fluid systems.

Typical properties

Appearance	Clear, colorless to pale-yellow liquid
Typical temperature range	>400°F (204°C)
Typical concentration range	1 to 4 gpt
Specific gravity	1.10
Typical pH range	6.5 to 8 (1% solution)
Solubility	Soluble in water and brines; insoluble in hydrocarbons
Biodegradability	93% degradation within 14 days

Note: The ClayCare temporary clay stabilizer is a member of the Baker Hughes SmartCare™ family of environmentally conscious chemical solutions, which helps ensure that clients' technical performance and environmental priorities are achieved. Evaluated by the Baker Hughes Environmental Services group's chemical assessment review process, this product has been methodically vetted for health, safety, and environmental criteria, performance, consistency, compatibility, and value.

Capillary Suction Time



Safety Precautions

Refer to material safety data sheets (MSDS) for handling, transport, environmental information, and first aid.

References

- MSDS
- SmartCare system profile