

FSA-2 fines stabilization agent

Minimize production decline due to mobile fines

Applications

- Hydraulic fracturing treatments or frac packs in sandstone formations
- Acid stimulation treatments in sandstone formations
- Standalone fines stabilization treatments in sandstone formations

Features and Benefits

- pH balanced
 - Less impact on pH sensitive fluids
- Reduces the mobility of siliceous fines in sandstone formations
 - Minimizes production declines related to fines migration
 - Reduces risk of permeability damage
- Compatible with all low-pH (acid) systems, high-pH systems, and water-based fracturing fluids
 - Facilitates logistics and testing requirements, which reduces associated costs
- Liquid additive
 - Allows accurate metering and mixing on-the-fly
- Non-wetting to sandstone mineral surfaces
 - Maintains natural permeability to hydrocarbons

The Baker Hughes **FSA-2* fines stabilization agent** is an aqueous solution that, when added to a stimulation treatment in a sandstone formation, minimizes production declines due to fines migration. A hydrolysable organosilane, the FSA-2 agent forms a siloxane covalent bond to reduce the mobility of siliceous fines (quartz, feldspars, mica, clays, etc.) in sandstone formations. An improvement over traditional organosilanes, this additive is pH-balanced to enhance the performance of pH sensitive fluids such as fracturing fluids and acid systems.

Safety Precautions

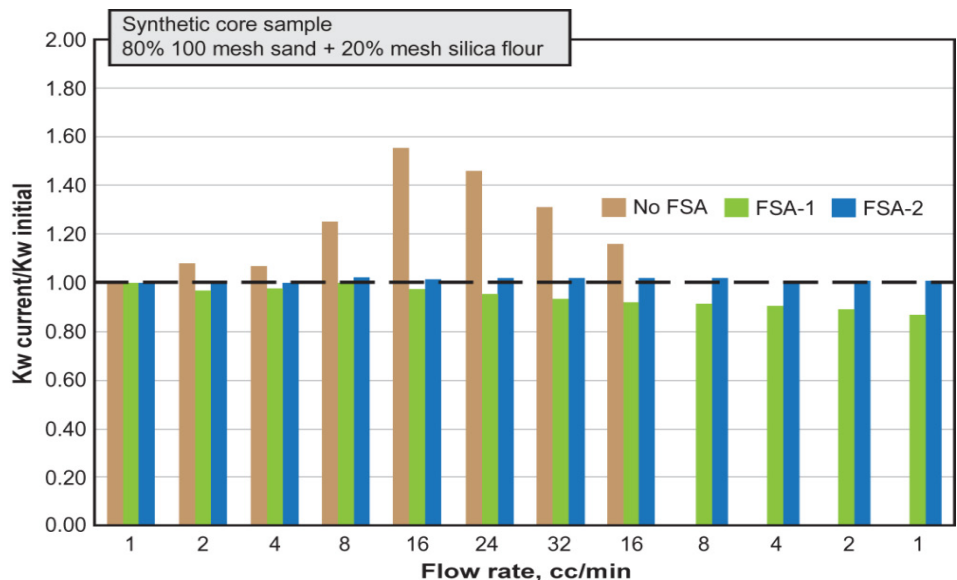
Refer to the safety data sheet for handling, transport, and environmental information and first aid.

Reference

SDS

Typical properties

Appearance	Yellow liquid
Specific gravity range	0.99
pH	6



*Patent pending.