ROC-SI1

ROC SI-1 is a non-hazardous scale inhibitor which has been developed specifically for oilfield applications. It is effective at inhibiting the formation of calcium carbonate and calcium sulfate when added to treatment fluids during well completions.

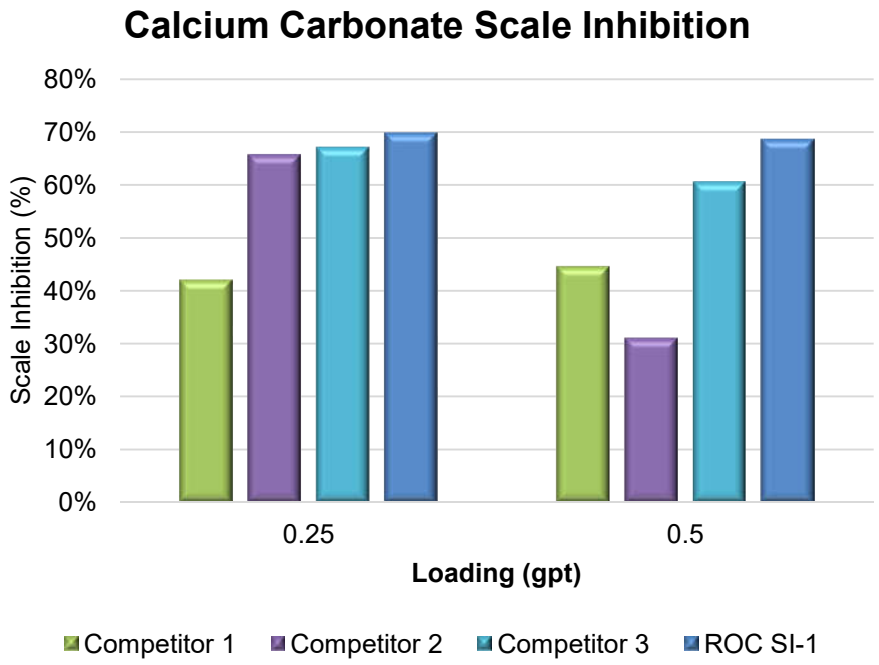
Properties

Appearance	Clear liquid
Odor	Odorless
Solubility	Soluble in Water
Specific Gravity	9.76 lbs/gal
pH	7.5
Freezing Point	0°F
Flash Point (closed cup)	>250°F
Charge	Anionic
Maximum Effective Temperature	350°F
Typical dosage	0.25 – 1.0 gpt

Advantages

- Inhibits scale deposit at low dosages.
- High stability in concentrated brines and less susceptible to chemical fouling compared to other commercially available scale inhibitors in overtreatment scenarios.
- Compatible with anionic slickwater stimulation fluids. Testing is recommended if it will be used in a crosslinked fluid system.
- Residuals in flowback or produced water can be monitored by testing for phosphorus.
- Capable of preventing scale buildup in environments with high saturation levels of calcium carbonate, sulfate scales, sulfide scales, and sodium chloride.
- Stable up to 350°F and at pH levels between 1 and 12.
- More apt than other scale inhibitors to maintain stability in oxidative environments. Will retain activity when mixed with breakers or oxidative biocides.

ROC SI-1 has been tested against 3 leading scale inhibitors and produced the following results (tested using static bottle tests according to NACE TM0374):



Storage & Handling Notes

- ROC SI-1 can be stored and transferred using containers and lines made up of glass or plastics (PTFE, PVC, PE).
- As long as it is stored in tightly sealed packaging ROC SI-1 will have a shelf life of one year.
- ROC SI-1 can be thawed after solidifying without impacting its effectiveness.
- In case of contact with the eye, rinse eyes with plenty of lukewarm water. Pursue medical attention if irritation develops.
- If inhaled, remove yourself far enough to find fresh air. Pursue medical attention if irritation develops.
- If ingested, seek medical attention. Do not induce vomiting unless advised to do so by a qualified medical professional.
- In case of contact with the skin, wash immediately with plenty of soap and water. Remove contaminated clothes and shoes and clean thoroughly before putting them back on. Seek medical attention if experience skin irritation.
- Refer to the Safety Data Sheet for more detailed information.