

WELL INTERVENTION | CUSTOM CHEMISTRY

ScaleFightR™ service

High-performance scale inhibitors for downhole applications

APPLICATIONS

- Stand-alone treatments or can be combined with stimulation treatments, that include hydraulic fracturing, acidizing, and/or gravel-packing
- Inhibits downhole scale deposition with slow-release, long-lasting chemicals
- Applicable for downhole scales. Effective downhole scale control in the near wellbore
- Highly compatible with challenging oilfield brines

BENEFITS

- Very effective in both high and low temperature applications
- Non-hazardous products that are very easy to transport, store and handle
- Non-corrosive towards most commonly encountered oilfield metallurgies and elastomers in the downhole completion
- Increase production and extend flow assurance



The formation of scale in hydrocarbon or injection wells can be detrimental to the profitability of the assets. It causes a variety of challenges such as damage to downhole and surface equipment, costly workover interventions, formation damage, and/or deferred hydrocarbon production. ScaleFightR™ service offers effective inhibition of scales typically found in the oil and gas industry, and extends the economic life of the reservoir.

ScaleFightR™ service includes two main offerings, depend on the predominant type of scale. **ScaleFightR™ C** scale inhibitors are designed to have excellent performance that prevent the formation of carbonate scales such as calcium carbonate (CaCO_3) and/or iron carbonate (FeCO_3). They also have fair performance in inhibition of sulfate scales. **ScaleFightR™ S** scale inhibitors are designed to have excellent performance to prevent the formation of sulfate scales such as barium sulfate (BaSO_4), calcium sulfates ($\text{CaSO}_4 \cdot x\text{H}_2\text{O}$), and strontium sulfate (SrSO_4). They also have good to fair performance in inhibition of carbonate scales such as calcium carbonate (CaCO_3) and/or iron carbonate (FeCO_3).



ScaleFightR™ is designed to prevent various types of mineral deposition in the formation as well as during flowback. Halliburton provides customized scale control solutions for each specific application. ScaleFightR™ can be deployed with any of Halliburton’s equipment, that includes: bullheading, CT units, or jointed pipe.

| SBM LEVEL | CHEMICAL LEVEL | CALCIUM CARBONATE | IRON CARBONATE | CALCIUM SULFATE | BARIUM SULFATE | STRONTIUM SULFATE | MAXIMUM TEMPERATURE | COMPATIBLE WITH LIVE HCl |
|----------------|----------------|-------------------|----------------|-----------------|----------------|-------------------|---------------------|--------------------------|
| ScaleFightR™ C | SF-10 | 4 | 2 | 2 | 2 | 2 | 347°F (175°C) | Yes |
| | SF-11 | 4 | 4 | 2 | 2 | 2 | 347°F (175°C) | Yes |
| | SF-11A | 4 | 4 | 2 | 2 | 2 | 347°F (175°C) | Yes |
| ScaleFightR™ S | SF-20 | 3 | 2 | 4 | 4 | 4 | 257°F (125°C) | Yes |
| | SF-21 | 2 | 2 | 4 | 4 | 4 | 347°F (175°C) | Yes |
| | SF-22 | 3 | 2 | 4 | 4 | 4 | 257°F (125°C) | Yes |
| | SF-23 | 3 | 2 | 4 | 4 | 4 | 257°F (125°C) | No |
| | SF-24 | 3 | 2 | 4 | 4 | 4 | 347°F (175°C) | Yes |

*Inhibition Performance Ranking: 4-excellent, 3-good, 2-fair, 1-poor

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

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