

# HalKleen™ S Scale Removal Service

## HIGH-PERFORMANCE STRONTIUM SULFATE SCALE DISSOLVER FOR DOWNHOLE APPLICATIONS

### OVERVIEW

The formation of scale in hydrocarbon producing wells or injection wells can be detrimental to the profitability of the assets, causing a variety of challenges such as damage to downhole and surface equipment, costly workover interventions, formation damage, and/or deferred hydrocarbon production. HalKleen S scale removal service offers effective dissolution of strontium sulfate ( $\text{SrSO}_4$ ) and celestite scale or minerals.

HalKleen S scale removal service is only intended for the removal of  $\text{SrSO}_4$  scale deposited in tubulars, downhole equipment, and wellbore and near-wellbore regions. It is not intended for use in scale inhibitor squeeze applications or matrix injection, nor for the removal of drilling fluid. HalKleen S is effective only with water-wet scale and requires a surfactant/mutual solvent treatment stage if the scale is oil-wet.

HalKleen S scale removal service is applicable for downhole scale removal, including removal from tubing, perforations, and from downhole equipment in the wellbore. Additionally, all the chemicals utilized in HalKleen S are non-damaging to the formation or wellbore completion.



For more information, contact your local Halliburton representative or visit us on the web at [www.halliburton.com](http://www.halliburton.com)

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### APPLICATIONS

- » Fast acting scale dissolver for strontium sulfate ( $\text{SrSO}_4$ ) and celestite minerals, eliminating long soak times or extended shut-in periods required by other dissolution treatments
- » Applicable for downhole scale removal, including removal from tubing, perforations, and from downhole equipment in the wellbore
- » Compatible with most used elastomers as well as ESP cables

### BENEFITS

- » Eliminates long soak times
- » Very effective in both high and low temperature applications
- » Formulated with a low emulsion tendency surfactant for efficient dissolution of oil-wet scale deposits
- » Non-corrosive towards most encountered oilfield metallurgies
- » Non-hazardous products that are very easy to transport, store, and handle

