

# HalKleen™ C Scale Removal Service

## CALCITE AND SIDERITE HIGH-PERFORMANCE SCALE DISSOLVER FOR DOWNHOLE APPLICATIONS

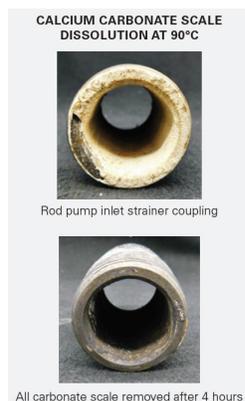
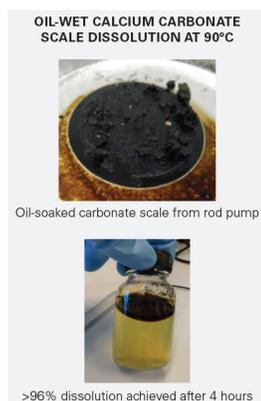
### OVERVIEW

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 C scale removal service offers effective dissolution of calcite ( $\text{CaCO}_3$ ) or siderite ( $\text{FeCO}_3$ ) scale or minerals. HalKleen C service products can be used up to 320°F and, under appropriate conditions, to higher temperatures, unlike most conventional acids used for scale removal.

Although these types of scale are soluble with HCl acid blends and organic acids (such as acetic or formic acid blends), HalKleen C dissolvers offer an effective alternative to remove carbonate-type scale under a broad range of conditions, minimizing risk of damaging the formation.

HalKleen C dissolvers have an extremely varied chemical profile, allowing them to be used in low temperature to high-pressure/high-temperature (HP/HT) wells, are compatible with almost any metallurgy in service, can be formulated with different chemical additives for enhanced compatibility with hydrocarbon fluids.

HalKleen C 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 C 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 calcite ( $\text{CaCO}_3$ ) or siderite ( $\text{FeCO}_3$ ) scale or 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. Bottomhole static temperatures (BHSTs) up to 320°F (160°C)
- » 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

