

HalKleen™ F

Scale Removal Service

HIGH-PERFORMANCE IRON SULFIDE DISSOLVER FOR DOWNHOLE APPLICATIONS

OVERVIEW

Halliburton HalKleen F scale removal service is a proprietary differentiating solution to address various production challenges associated with the presence of iron sulfide scale deposits.

Conventional solutions such as mineral and organic acids, oxidizers, acrolein, THPS and various THPS blends pose high total cost of operation challenges for oil and gas producers. HalKleen F technology addresses these challenges by providing a fast-acting dissolution to iron sulfide.

HalKleen F 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 F are non-damaging to the formation or wellbore completion.

Conventional Solutions	HalKleen™ F
Asset integrity risk	Compatible with SS304, SS316, and SS316L for long-term use in stainless steel chemical storage tanks and injection facilities at elevated temperatures during summer period in MENA region
Toxic H ₂ S gas generation	No H ₂ S gas released when iron sulfides are dissolved
Limited effect on oil-wet sulfide particulates or Schmoos deposits	Efficient dissolution of oil-wet iron sulfides and Schmoos deposits
Limited dissolution performance at low temperature	High dissolution performance in low temperature applications



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

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APPLICATIONS

- » Fast acting iron sulfide scale dissolver, 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

