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FloGuard FeS

Extreme Performance Combination FeS & Hydrocarbon Treatment

PRODUCT OVERVIEW

The ultimate in petrochemical turnarounds - FloGuard FeS is a non-chlorinated dual-action treatment engineered to control and remove iron sulfide scale and heavy hydrocarbon deposits in a single application. It is designed for fouled oilfield and industrial systems where paraffin, asphaltenes, and iron sulfide accumulate together, restricting flow and complicating clean-out operations. This process results in an anionic charge to it does not damage the downhole formation.

FloGuard FeS combines targeted iron sulfide dissolution with high-strength hydrocarbon solvency to restore flow and operational efficiency in sour and mixed-deposit environments. The advanced solvent, surfactant, and dispersant system promotes rapid wetting and deep penetration while keeping mobilized material suspended to help minimize re-deposition and downstream fouling during cleaning.

The formulation is water soluble and dispersible, allowing FloGuard FeS to be applied in aqueous heated circulation cleaning programs. FloGuard FeS provides a safer and more efficient alternative to hot oil treatments and conventional solvent or acid-based clean-out methods.

DIRECTIONS

FloGuard FeS must be applied through an aqueous phase in solution and immediately depending on system configuration and deposit severity. Effective contact between the treatment solution and deposits is essential for optimal performance.

Batch / Clean-Out Applications

ApplyFloGuard FeS at concentrations starting at **3-10% by volume**, based on total water content and the severity of iron sulfide and hydrocarbon deposits. Higher concentrations may be required for heavily fouled systems. A **2–10 hour shut-in period** is typically sufficient to allow effective dissolution.

Circulation Cleaning

Where circulation is possible, dilute FloGuard FeS at **3–10% by volume** in water. Adjust concentration based on deposit severity, system volume, and circulation time. Heated circulation is recommended where practical to enhance penetration and cleaning efficiency.

For more information – Contact your A.C.E. sales rep today!

KEY BENEFITS

- Simultaneously removes iron sulfide and heavy hydrocarbon deposits to increase flow
- Water soluble and dispersible for circulation and thermal cleaning applications
- Helps minimize re-deposition and downstream fouling
- Reduces reliance on hot oil and aggressive solvents
- Suitable for sour and mixed-deposit systems
- Supports faster turnarounds and overall improved flow restoration

HOW FLOGUARD FeS WORKS

FloGuard FeS operates through a dual-mechanism approach. The formulation chemically dissolves iron sulfide deposits while the solvent system penetrates and mobilizes heavy hydrocarbon coatings that often shield scale from aqueous treatments. Surfactants improve wetting and surface contact, while dispersants keep dissolved and loosened material suspended in the circulating fluid.

This combined action allows both iron sulfide and hydrocarbon deposits to be removed in a single treatment, reducing cleaning time, chemical volumes, and operational downtime while improving overall cleaning efficiency.

WHY A COMBINATION TREATMENT?

In many sour and fouled producing systems, iron sulfide and hydrocarbon deposits form together rather than in isolation. Paraffin and asphaltenes can create an oil-wet barrier that prevents aqueous iron sulfide treatments from contacting scale, while solvent-only programs may leave iron sulfide intact beneath the hydrocarbon layer. The result is incomplete clean-out and rapid re-fouling. These mixed deposits commonly lead to:

- Persistent flow restriction despite solvent or FeS treatment
- Reduced treatment effectiveness due to limited deposit contact
- Repeated clean-outs and extended downtime
- Higher chemical usage and operating cost

FloGuard FeS is designed for these conditions, treating both deposit types in a single step improves contact, shortens cleaning cycles, and delivers more durable flow restoration in complexly fouled systems.

SEE REVERSE SIDE

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ACCELERATED CHEMICAL EFFICIENCIES LTD
1108 Bellevue Ave SE
Calgary, AB T2G 4L1

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FloGuard FeS

Extreme Performance Combination
FeS & Hydrocarbon Treatment

PHYSICAL PROPERTIES

APPEARANCE	**Clear to slightly hazy, colorless liquid**
ODOR	**Strong characteristic odor**
SPECIFIC GRAVITY @ 20°C	**0.90 – 1.10**
pH	**3 - 6**
FLASH POINT (TCC)	**32°C**
FREEZE POINT	**Under -35°C**
FOAMING TENDENCY	**Low**
WATER SOLUBILITY	**Complete**

FIRST AID MEASURES

IF SWALLOWED:
Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor.
IF ON SKIN (OR HAIR):
Wash with plenty of soap and water. Remove contaminated clothing and wash before reuse. Immediately call a poison center or doctor.
IF INHALED:
Remove person to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor.
IF IN EYES:
Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.
IN CASE OF FIRE:
Use carbon dioxide, dry chemical powder, foam, water spray, or fog.

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1108 Bellevue Ave SE
Calgary, AB T2G 4L1

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Kolin Stuckey
403 708 2999
kstuckey@cleansweepis.com