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IronStrike FeS

High Performance Iron Sulfide Liquefier & Cleaner

PRODUCT OVERVIEW

IronStrike FeS is a high-performance, non-chlorinated treatment designed to control and remove iron sulfide deposits in sour oilfield systems. It helps restore lost flow, reduce safety risks, and maintain system integrity in environments where hydrogen sulfide (H_2S) and iron corrosion products interact to form hazardous deposits such as pyrite, marcasite, and related iron sulfide species.

IronStrike FeS is water soluble and engineered to form stable, non-reactive complexes with iron sulfide, allowing deposits to be safely dissolved and removed without releasing hydrogen sulfide gas when used as directed. Once solubilized, iron remains bound in solution, preventing re-precipitation, downstream fouling, or water injection problems.

IronStrike FeS can be used in gas wells, production wells, vessels, separators, tanks, piping systems, and any application where iron sulfide deposit accumulation impacts flow, safety, or operational efficiency.

DIRECTIONS

IronStrike FeS must be applied through an aqueous phase. It is not oil-miscible and should not be injected directly into hydrocarbon-only systems. Effective contact between the treatment solution and iron sulfide deposits is essential for optimal performance.

Batch / Clean-Out Applications

Apply IronStrike FeS at concentrations starting at **1-3% by volume**, based on total water content and the severity of iron sulfide deposits. Higher concentrations may be required for heavily scaled systems. A **2–10 hour shut-in period** is typically sufficient to allow effective dissolution.

Oil-Wet Systems

When iron sulfide deposits are coated with paraffin or asphaltenes, use IronStrike FeS in combination with **Cert-Solv 400NS** to remove hydrocarbon barriers and improve contact between the treatment solution and the iron sulfide scale.

Continuous Treatment

Following clean-out, IronStrike FeS may be applied continuously at **50–200 ppm** to inhibit further deposit formation and help maintain clean flow paths in sour systems.

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

KEY BENEFITS

- Controls and removes iron sulfide deposits
- Does not release hydrogen sulfide gas when used as directed in solution
- Water soluble with stable iron complexation
- Helps prevent re-precipitation and injection issues
- Suitable for remediation and preventative programs
- Designed specifically for sour oilfield service
- Improves downhole circulation by removing deposits while being less corrosive than traditional acid treatments

HOW IRONSTRIKE FeS WORKS

IronStrike FeS targets iron sulfide deposits through a controlled dissolution mechanism. The formulation reacts directly with iron sulfide scale, converting it into stable, water-soluble complexes. This process allows iron sulfide to be safely removed from the system without liberating free hydrogen sulfide gas.

Once dissolved, the iron remains fully complexed in the aqueous phase, reducing the risk of re-deposition, downstream fouling, or injection system plugging. This makes IronStrike FeS suitable for both remediation and ongoing control programs in sour service.

SOUR SYSTEM CHALLENGES

Sour systems contain hydrogen sulfide, which readily reacts with iron from corrosion byproducts or metallurgy surfaces. This reaction rapidly produces iron sulfide scale that adheres tightly to metal surfaces and internal flow paths. Over time, these deposits can:

- Restrict or block flow paths
- Reduce production efficiency and runtime
- Increase pressure drop and operational costs
- Create hazardous conditions during maintenance due to potential H_2S exposure

Conventional mechanical or acid-based removal methods can be ineffective, slow, or dangerous due to uncontrolled hydrogen sulfide release. IronStrike FeS addresses these challenges through controlled chemical dissolution.

SEE REVERSE SIDE

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IronStrike FeS

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PHYSICAL PROPERTIES

APPEARANCE	**Clear to slightly hazy, colorless liquid**
ODOR	**Strong alcohol odor**
SPECIFIC GRAVITY @ 20°C	**0.85 – 1.05**
pH	**2 - 5**
FLASH POINT (TCC)	**24°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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