



ParaFlow Energy Solutions, LLC

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## ParaFlow® HE-FER-6000

### Generic Description

Product Name: **ParaFlow HE-FER-6000**

Application: Iron Dropout Additive

### General Information

**ParaFlow HE-FER-6000** is designed to assist in the reduction of soluble and non-soluble iron compounds in petroleum crude oil including iron pyrite and pyritic iron sulfide compounds.

**ParaFlow HE-FER-6000** enhances dispersion of iron sulfide based particulate as well as other difficult to disperse solids that will not readily dissolve in water.

**ParaFlow HE-FER-6000** is ideally suited for use in desalter operations as well as in the processing of slop oil where high iron content is undesirable.

The three component combination of **ParaFlow HE-FER-6000**, **ParaFlow HE-508MM**, and **ParaFlow HE-1507A** at 500 ppm, 500 ppm, and 1500 ppm respectively used in a slop oil treatment test case @ 90C over 5 days residence time resulted in the following:

- Water reduction in the recovered oil from 13% to < 0.1%
- Iron reduction in the recovered oil from 5000 ppm to < 50ppm
- Effective paraffin solubilization
- Rag layer elimination

**ParaFlow HE-FER-6000** is designed to perform the following functions:

- Reduces soluble and non-soluble iron content in crude oil
- Reduces silicate residues from Fluid Catalytic Cracking Units
- Reduces aluminum, sodium, and calcium in crude oil

### Typical Properties

Appearance:	Clear yellow to amber liquid*
Density g/ml at 25°C:	1.14g/ml (9.5 lb./gal)
Actives %:	49 +/- %
Flash Point:	76°C (169°F)
Pour Point:	~-10C
pH:	<2
Shelf Life:	2 years minimum

\*Product color darkens with age

### Recommended Use Level

Use level is inversely proportional to operating temperature, with a recommended starting range of 50ppm to 500ppm.

### Packaging/Storage/Handling

**ParaFlow HE-FER-6000** is available in bulk and 55 gallon closed head poly drums, filled to a net weight of 485 lbs (220 kg) and should be stored in a cool, dry well ventilated location in closed containers and should not be stored with strong oxidizers.

### Shipping

**ParaFlow HE-FER-6000** is not regulated in NON BULK packaging by ground transportation. It is a combustible liquid in containers holding >119 gallons.

### Additional Information

A GHS compliant Safety Data Sheet is available upon request. Nothing contained herein grants or extends a license, express or implied, in connection with patents, issued or pending, of the manufacturer or others. The information contained herein is based on the manufacturer's own study & the works of others. The manufacturer makes no warranties, express or implied, as to the accuracy, completeness, or adequacy of the information contained herein. The manufacturer shall not be liable (regardless of fault) to the user or it's employees, or anyone for any direct, special or consequential damages arising out of the use of or in connection with the accuracy, completeness, adequacy or furnishing or such information.

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