

# **INFORMATION**

# **OILAID-IS-5**

**IRON STABILIZER** 

#### DESCRIPTION

OILAID-IS-5 is an iron stabilizing agent which is especially useful in oilwell acidizing treatments. OILAID-IS-5 stabilizes nine times more iron than typical iron sequestrants such as citric acid. Its typical properties are:

Form White, granular, solid

Melting Point 78.8°C

Solubility at 25° C

(g/100 ml) Water 43.0

Methanol 18.0

pH, 10% sol'n @ 25°C 2.1

#### **APPLICATION**

OILAID-IS-5 should be used when acidizing formations which contain iron minerals or when iron scale is present in pipe or tubing. Due to the presence of iron scale or corrosion products inside the tubulars, iron stabilizers should be used in all acid treatments.

Acid pumped into a well dissolves rust, iron scale and iron-bearing formation minerals.

Iron remains in solution until the acid is spent and the pH of the system increases. As the pH increases to between 1.5 and 2, the ferric ion (+3), which normally accounts for about 20% of the total iron content, precipitates as ferric hydroxide. Ferric hydroxide is a shiny gelatinous mass which can plug formation permeability, reducing production. OILAIDIS-5 prevents ferric hydroxide by reducing ferric (+3) ions to the ferrous (+2) form.

Ferrous hydroxide does not precipitate below a pH of 7.7 and since spent acid rarely reaches maximum of 5.3, ferrous hydroxide is rarely a problem.



## RECOMMENDED TREATMENT

OILAID-IS-5 dosage should be based on amount of total iron to be encountered in the treatment. OILAID-IS-5 at a concentration of 2400 ml/L will stabilize 6000 ml/L of total iron at temperatures up to 400°F (204°C).

For every 3000 ppm total iron 10 lb (1.20 kg/m3) of OILAID-IS-5 per 1000 gallons of acid is used.

# **HANDLING**

OILAID-IS-5 is a non-hazardous, non-toxic biodegradable material which is a mild irritant.

## **PACKAGING**

OILAID-IS-5 is available in 50 lb (25 kg) bags.

OILAID-IS-5 is a Messina trademark