

# **INFORMATION**

# **OILAID-IS-2**

**IRON STABILIZER** 

# **DESCRIPTION**

OILAID-IS-2 is an organic chelating agent which is especially useful as an iron stabilizer in oilwell acidizing treatments. Typical properties:

Form Powder
Color White
Bulk Density 52 lbs/cu ft

# **APPLICATION**

OILAID-IS-2 should be used when acidizing formations which contain iron minerals or when iron scale is present in pipe or tubing. In many areas, the majority of wells will have significant amounts of iron scale and corrosion products inside the well tubing; for this reason iron stabilizers should be used in most acid treatments.

Acid pumped into a well dissolves rust, iron scale and iron-bearing formation minerals. The iron remains in solution until the acid is spent and the pH of the fluid begins to rise. As the pH of the spent acid nears 2, the ferric iron (valence+3), which normally accounts for about 20% of the total iron, precipitates as ferric hydroxide. Ferric hydroxide is a shiny, gelatinous mass which can plug formation permeability, reducing oil/gas production. When OILAID-IS-2 is used as an acid additive, the formation of ferric hydroxide precipitate is inhibited. The dissolved iron and other acid reaction products remain in solution and are removed from the formation as the well flows back and cleans up.

OILAID-IS-2 is stable at 350°F to 375° F but a high metal ion concentration will lower its effective temperature somewhat.

#### RECOMMENDED TREATMENT

OILAID-IS-2 dosage should be based on the amount of ferric iron to be encountered in treatment. This is best determined by laboratory analysis of spent acid returns from offset wells. If information on ferric iron content is not available, treat for one-fifth of total iron. Generally, OILAID-IS-2 should be used at a concentration of 6.5 pounds per 1000 gallons of acid per 100 ppm of ferric iron content.



For example, if ferric iron content is 500 ppm, use 32.5 pounds of OILAID-IS-2 per 1000 gallons of acid. Do not treat for total iron content, but only for ferric iron. Do not exceed the following maximum dosages:

MAXIMUM DOSAGE OF OILAID-IS-2 with 15% Acid: 200 lbs/1000 gal with 28% Acid: 80 lbs/1000 gal

# MIXING INSTRUCTIONS

OILAID-IS-2 is soluble in both acid and water, and can be added at almost any stage in the mixing process. But the following sequence may be used as a guide.

- Put required water in tank.
- Add OILAID inhibitor and other OILAID surfactants, emulsion preventers, etc.
- Add OILAID-IS-2.
- Mix thoroughly.
- Add required concentrated acid.
- Mix thoroughly.

#### HANDLING

OILAID-IS-2 is moderately irritating to eyes and skin, and can cause burns. Chemical goggles should be worn while handling the product. Flush from eyes or wash off skin with water. OILAID-IS-2 is irritating to nasal passages, and the dust should not be inhaled. When dusty conditions exist, a protective mask should be worn.

### **PACKAGING**

OILAID-IS-2 is packaged in 50-lb export bags.

OILAID-IS-2 is a Messina trademark