

## PRODUCT DATA

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# OIL AID-IS-4™

## IRON STABILIZER

### DESCRIPTION

OIL AID-IS-4 is an iron sequestrant used in acidizing and other operations. Its properties are:

|                               |                                       |
|-------------------------------|---------------------------------------|
| Form                          | White, granular, crystalline          |
| Specific Gravity              | 1.665                                 |
| Melting Point                 | 153° C                                |
| Solubility at 25° C (g/100ml) | Water 162<br>Alcohol 59<br>Ether 0.75 |

### APPLICATION

OIL AID-IS-4 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 OIL AID-IS-4 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.

OIL AID-IS-4, in a stabilized acid, acts as a complexing agent to keep dissolved iron in solution after the acid is spent. In alkaline fluids, an excess of the product prevents the precipitation of many iron hydroxides. OIL AID-IS-4 is compatible with virtually all inhibitors.

### RECOMMENDED TREATMENT

Ten pounds of OIL AID-IS-4 per 1000 gallons of acid or other fluid will complex approximately 500 ppm of ferric iron. Do not overtreat.

### PACKAGING

OIL AID-IS-4 is available in granular, fine granular and powder grades. It is packaged in 100 lb sacks.

OIL AID-IS-4 is a Messina trademark.

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- Cement Additives • Stimulation, Production & Refinery Chemicals • Laboratory Testing Equipment •

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