

LAI-21

High Temperature Acid Inhibitor

11150-004



General Information:

LAI-21 is an inhibitor for oilfield acids, particularly hydrochloric acid and hydrochloric/hydrofluoric mixtures. It is designed for use at temperatures of 200°F to 350°F.

Physical Properties:

Density 7.40 lbs/gal.
Ionic Charge Cationic
Solubility in Water Highly dispersible
Solubility in Diesel Insoluble
Appearance Brown liquid
Odor Mild, flowery
Flash Point 44°F

Chemical Description:

LAI-21 is a highly concentrated blend of proven acid inhibiting agents, including propargyl alcohol. It contains no alkylphenols or quaternary amines. The inhibition of LAI-21 may be intensified with formic acid or with chemical intensifiers.

Recommended Uses:

LAI-21 is recommended as the primary inhibitor for acidizing at temperature above 200°F. LAI-21 is effective on many alloy steels.

Limitations:

Though LAI-21 effectively inhibits acid corrosion at low temperatures, it may not be cost effective below 200°F relative to inhibitors designed for that temperature range.

As with any acid corrosion inhibitor, inclusion of surfactants or polymers in acid mixtures may reduce the effectiveness of LAI-21. If the use of such additives is anticipated, increase recommended loadings of inhibitor by 50% to 100%.



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Treating Applications:

A suggested loading schedule for use in 15% hydrochloric acid or 12/3 HCl/HF is as follows:

Bottomhole Temperature	LAI-21 Loadings
200°F - 240°F	6-8 gal/1000
240°F - 270°F	10-15 gal/1000
270°F - 300°F	15-20 gal/1000, or with intensifiers
>300°F	Use with intensifiers

Packaging:

LAI-21 is obtainable in 55-gallon poly drums, 330-gallon poly totes and Bulk storage

DOT Information:

DOT INFORMATION: FLAMMABLE LIQUID, N.O.S., 3, UN 1993, PG II



LIBERTY



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