

LAI-20

Acid Corrosion Inhibitor

11150-003

General Information: LAI-20 is a moderate temperature corrosion inhibitor for oilfield acids. It is easily dispersed in acid solutions and shows minimal tendency to “oil out”. LAI-20 is environmentally “greener” than older inhibitors, as it contains no nonylphenols or quaternary amines.

Physical Properties: Density 7.2 lbs/gal.
Solubility in Water Dispersible
Solubility in Diesel Dispersible
Color..... Dark brown
Odor: Mild, alcoholic
Flash Point: 57°F

Chemical Description: LAI-20 contains acetylenic alcohols and surfactants in a non-aqueous solvent. LAI-20 contains no nonylphenols based surfactants. Common inhibitor intensifiers are fully compatible with the product.

Limitations: As with any acid inhibitor, the inhibition ability of LAI-20 may be lessened by high concentrations of surfactants or mutual solvents. In the absence of laboratory testing, loadings should be increased if these additives are to be used.

Recommended Uses: LAI-20 is recommended as an acid corrosion inhibitor for use in hydrochloric acid and hydrochloric/hydrofluoric acid mixtures. It is suggested for use from temperatures of 140 deg F to 250 deg F. LAI-20 effectively protects J-55, N-80, and many alloy steels against acid attack.

Treating Applications: LAI-20 is typically loaded into mix water before raw acid is added. The inhibitor is readily dispersible in either water or acid. A suggested schedule for 15% hydrochloric or 12-3 HCl/HF is as follows:



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Treating Applications (cont'd):

BHT	LAI-20 gal/1000
To 140°F	1-2
140°F - 180°F	2-5
180°F - 220°F	6-10
220°F - 250°F	12-15

Use 1.5 times these concentrations for 28% acid.

Packaging:

LAI-20 is obtainable in 55 gallon poly drums, 330 gallon poly totes and bulk storage.

DOT Information:

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

LAI-20 Corrosion Data:

Temperature	Steel Type	Acid Strength	LAI-20 Loading	Test Duration	Corrosion Rate
150 °F	N-80	15%	3 gallon/1000	24 hr.	.0047 lb/sq ft/day
150 °F	N-80	28%	3 gallon/1000	6 hr.	.0063 lb/sq ft/day
175 °F	N-80	15%	4 gallon/1000	24 hr.	.011 lb/sq ft/day
175 °F	N-80	28%	6 gallon/1000	6 hr.	.026 lb/sq ft/day
200 °F	N-80	15%	6 gallon/1000	6 hr.	.0092 lb/sq ft/day
200 °F	N-80	15%	9 gallon/1000	24 hr.	.016 lb/sq ft/day
200 °F	N-80	28%	12 gallon/1000	6 hr.	.031 lb/sq ft/day
225 °F	N-80	15%	12 gallon/1000	6 hr.	.0096 lb/sq ft/day
225 °F	N-80	28%	15 gallon/1000	6 hr.	.041 lb/sq ft/day



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