



Description

PIPE-LAX is a high-performance material which is designed for damaging filter cake and releasing stuck tools in downhole. It is a blend of surfactants and emulsifiers which ease the breakdown of mud cake and lubricating the downhole tools. PIPE-LAX can be used to free differential stuck incidents and the stuck pipes which are related to unsuitable filter cakes. It is better to pumped as pills rather than in active mud.

Application

Main function of PIPE-LAX is to damage the filter cake around stuck zone and reduce the required force which is needed to free stuck pipe. PIPE-LAX pill is an excellent choice for differential stuck incidents when thick filter cake is formed on wellbore surface. Based on severity of losses, volume and optimum concentration of PIPE-LAX is selected. It can be used in drilling and casing running operations.

Advantages

- Easy to mix through hopper
- Reduce the required force which is needed to free stuck pipe
- Can be mixed with crude oil, diesel and low-toxicity oil
- Minimize possibility of losing well due to stuck

Limitations

- It may has unwanted effects on rheological characteristics when added to the active circulating system, and it is better to be used as pills.

Treatment

In case of stuck pipe, 50 to 150 bbl of PIPE-LAX solution can be applied by mixing 2-3 gal/bbl of PIPE-LAX in diesel oil. In case of requiring weighted pills, the table given in this data sheet can be used. It is needed to soak the PIPE-LAX pill in downhole for 4-6 hours. While soaking, jarring and working on stuck are advised.

PIPE-LAX formulation for weighted and unwanted pills are given in below table:

Mud Weight	PIPE-FREE	Diesel Oil	Fresh Water	Barite (SG: 4.1)
PPG	Gal	BBL	BBL	lb
6.66	3	0.93	-	-
8	3	0.62	0.28	43.8
10	3	0.58	0.26	145.5
12	3	0.54	0.22	253.8
14	3	0.51	0.21	358.6
16	3	0.49	0.11	471.1



Typical Properties

APPEARANCE	Yellow to Brown Liquid
SPECIFIC GRAVITY (in 77 °F)	0.85-1
Oil Compatibility	Compatible
Water Compatibility	Dispersible
Flash Point	>100 °C

Packaging

PIPE-LAX is available in 55-Gal Drums.