

FLO-PLEX

FLO-PLEX* fluid-loss-control agent is a polysaccharide derivative used to control filtration in the DRILPLEX* system at recommended concentrations.

FLO-PLEX additive will not destroy the low-end rheology of the DRILPLEX system as observed with conventional anionic fluid-loss-control agents such as CMC and PAC. FLO-PLEX additive is effective in seawater fluids, but all hardness should be treated out before the FLO-PLEX product is added. FLO-PLEX additive may be used in any other type of fluid where starches and cellulosic additives are permitted. The temperature stability of FLO-PLEX agent is about 250°F (120°C), but may be extended to 300°F (149°C) by the addition of a thermal stability agent such as PTS-200* additive. FLO-PLEX additive is resistant to bacterial degradation.

Typical Physical Properties

Physical appearance	White powder
pH (4% water)	9.5 – 10.5
Solubility in water	Soluble
Bulk density	35 – 40 lb/ft ³ (560 – 640 kg/m ³)

Applications

Traditional fluid-loss additives tend to destroy the high-end rheology that makes the DRILPLEX system unique.

Conventional anionic fluid-loss agents will thin the DRILPLEX system. Therefore, a separate additive was developed to provide fluid-loss control without lowering the yield-point value and breaking the crosslinks. FLO-PLEX fluid-loss-control additive is very effective in the DRILPLEX system. FLO-PLEX fluid-loss-control agent is a polysaccharide derivative.

When preparing new fluid, FLO-PLEX additive should be added at concentrations no less than 3.5 lb/bbl if fluid loss control is required. Lower concentrations can cause loss of rheology. Treatment levels can be increased to 4.5 – 5.0 lb/bbl (12.8 – 14.3 kg/m³) as required to maintain low filtration rates.

Hardness in the seawater should be treated out. FLO-PLEX additive can be used in other water base systems. FLO-PLEX additive will not be degraded by the action of bacteria.

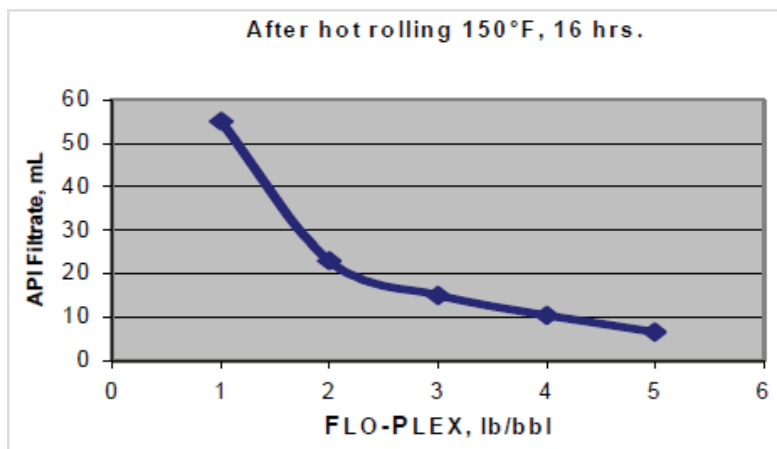


Figure 1 shows the API fluid loss of FLO-PLEX additive in an 11.5 lb/gal (1.38 sg) system after hot rolling at 150°F (66°C) for 16 hours.

Advantages

- Specially designed as fluid-loss-control agent for the DRILPLEX system
- Performs in other water-base systems
- Resistant to attack from bacteria
- Temperature limits may be increased to 300°F (149°C) by using thermal extension additives

Limitations

- Water hardness must be removed
- Ineffective in high levels of magnesium

Toxicity and Handling

Bioassay information is available upon request.

Handle as an industrial chemical, wearing protective equipment and observing the precautions as described in the Material Safety Data Sheet (MSDS).

Packaging and Storage

FLO-PLEX additive is packaged in 50-lb (22.7-kg) multi-wall, paper sacks.

Store in a dry location away from sources of heat or ignition, and minimize dust.



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