

POLY-PLUS LV

POLY-PLUS LV additive is a low-molecular-weight, medium-charge polyacrylamide designed to provide cuttings encapsulation and clay-dispersion inhibition. It is designed for use in fluids based on fresh and saline water environments. POLY-PLUS LV provides minimal viscosity contribution, and can enhance filtration properties. When added to MAX GEL* or MAXBORE* HDD, POLY-PLUS LV produces an inhibitive drilling-fluid system without affecting fluid properties.*

Typical Physical Properties

Physical appearance.....	White, granular powder
Specific gravity	0.7
pH (0.5 % solution).....	6.0 – 8.0
Solubility in water	Soluble

Applications

POLY-PLUS LV provides excellent cuttings encapsulation by adsorbing onto the clay surfaces and forming a protective film that prevents cuttings from sticking to each other or the shaker screen. The product is also effective in seawater and KCl based fluids. Normal dosage rates are between 1.0 and 3.0 lb/bbl (3.0 and 9.0 kg/m³).

Due to the low molecular weight of this polymer, the mixing process requires less shear than polymers with higher molecular weights. The resulting fluid will pass through fine shaker screens without blinding.

Recommendations: Total hardness should be treated out first with bicarbonate/soda ash. Maintain pH below 10 for optimum performance.

Recommended Treatment

Approximate amounts of POLY-PLUS LV added to water-base fluid

	Lb/100 gal	Lb/bbl	Kg/m ³
Bentonite free drilling fluid	0.5 – 1.5	0.2 – 0.6	0.6 – 1.8
Added to MAX GEL or MAXBORE HDD for inhibition	0.25 – 0.75	0.1 – 0.3	0.3 – 1.0
Foam drilling (stiff foams)	0.5 – 1.0	0.2 – 0.4	0.6 – 1.2

Advantages

- Provides excellent cuttings encapsulation and limits cuttings dispersion
- Enhances removal of drill solids by reducing dispersion tendencies
- Minimal contribution to the viscosity of the system
- For use in seawater, KCl or freshwater systems
- Provides improved shale stabilization
- Significantly lower screen-blinding potential, compared to higher-molecular-weight encapsulators
- Will not negatively affect positive rheological profiles

Limitations

Makeup water should be treated with soda ash or bicarbonate to reduce hardness and increase the performance of the product

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 Sheets (MSDS).

Packaging and Storage

POLY-PLUS LV is packaged in 27.5-lb (12.5-kg), 5-gal (18.9-L) buckets

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

For sales and service, contact your local dealer:



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