

DRILL-WELL™ D244 Fluid Loss Additive



A DIVISION OF CHEVRON PHILLIPS
CHEMICAL COMPANY LP

DRILL-WELL™ D244 Fluid Loss Additive (FLA) is a proprietary polymeric product used for fluid loss control in oil-based drilling muds (OBM) including mineral, diesel and synthetic oils. DRILL-WELL™ D244 FLA is a liquid product composed of 50% active component in a diluent mineral oil that is compatible with OBM fluid systems. The product blends easily through a standard mud hopper or may be added at the return pit to ensure even distribution throughout the system. It is recommended that this product be bled slowly into an active system for optimum distribution throughout the mud system. DRILL-WELL™ D244 FLA works in both low and high temperature drilling fluids is highly effective at low concentrations and may be added at a mud plant or rig site. The viscosity of the product is quite similar to some oil based drilling mud emulsifiers and should be blended in over a complete circulation depending somewhat on what concentration is being added.

Advantages:

- Works at low concentrations of 2 to 4 ppb of liquid to substantially reduce the HTHP fluid loss values
- Is rheology neutral and does not thin the drilling fluid
- Shows good thermal stability in testing to 176.7 °C (350 °F) for high temperature/high pressure (HTHP) fluid loss control
- Provides increased electrical stability (ES) as shown in testing @ 65.6 °C (150 °F)
- Works better than other polymeric fluid loss additives sold into the market today
- Works in oil muds of any density
- Mixes easily at the mud plant at ambient temperatures or on the drilling rig, no high shear required
- Is compatible with most other commonly used drilling mud additives
- Is compatible with Drilling Specialties DRILL-WELL™ D294 Flat Rheology Modifier

Cost

Total well cost are often lower as a result of higher product efficiency fewer mud problems and less rig time. DRILL-WELL™ D244 Fluid Loss Additive efficiency results in lower costs for trucking, inventory and handling.

Other information

Pour Point is -30 °C (-22 °F)
Freeze Point – no data available
Flash Point is 71 °C (160 °F)
SG = 0.861 \approx 7.2 ppg

Mud Types

Most oil-based mud formulations

Mixing Requirements

Mix through a mud hopper or bleed it slowly into the return pit for even distribution. May be mixed at the mud plant under ambient temperatures.

Handling

For specific instruction on handling, refer to the MSDS

Packaging

Standard packaging is in 275 gallon non returnable totes, may be special ordered in 5 gallon pails 32 pails to the pallet or 55 gallon drums 4 drums per pallet

Before using this product, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the product for the specific use in question and is further advised against relying on the information contained herein as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the user's specific application. Drilling Specialties Company does not make, and expressly disclaims, all warranties, including warranties of merchantability or fitness for a particular purpose, regardless of whether oral or written, express or implied, or allegedly arising from any usage of any trade or from any course of dealing in connection with the use of the information contained herein or the product itself. The user expressly assumes all risk and liability, whether based in contract, tort or otherwise, in connection with the use of the information contained herein or the product itself. Further, information contained herein is given without reference to any intellectual property issues, as well as federal, state or local laws which may be encountered in the use thereof. Such questions should be investigated by the user.

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DRILL-WELL™ D244 FLA *Laboratory Mineral OBM Test Results*

13.0 ppg, 70/30 OWR	Base Mud	DRILL-WELL™ D244 FLA 4.0 ppb	Base Mud	DRILL-WELL™ D244 FLA 4.0 ppb
Post 16 hour Hot Roll	300 °F	300 °F	350 °F	350 °F
HTHP Fluid Loss @ 300 °F, ml	4.1	1.6	19.2	5.6
Yield Point @ 150 °F, lb _f /100 ft ²	17	23	10	17
Electrical Stability, volts	499	674	206	659



DRILL-WELL™ D244 FLA *Field Diesel OBM Test Results*

18.0 ppg, 84/16 OWR	Base Mud	DRILL-WELL™ D244 FLA 3.0 ppb
Post 16 hour Hot Roll	300 °F	300 °F
HTHP Fluid Loss @ 300 °F, ml	5.2	.8
Yield Point @ 150 °F, lb _f /100 ft ²	13	39
Electrical Stability, volts	499	674

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