PALAYESH PARAFFIN KHAVARAN

PRODUCT DATA SHEET

PRODUCT GROUP	DRILLING FLUID ADDITIVES	PRODUCT NAME
DRILLING FLUID ADDITIVES	BIT LUBE	BIT LUBE – W/O BM

PRODUCT

Khavaran Paraffin offers a range of chemical products formulated to reduce the coefficient of friction (COF) of drilling fluids, helping you minimize torque and drag, reduce stuck pipe risk, and increase ROP.

This Lubricant can be used in WBM. SBM and OBM drilling fluids system

APPLICATION

Metalworking fluids and other industrial lubricants are typically Oil Emulsions. Oil Emulsion allows metalworkers to make use of both the lubricating properties of oils and the cooling capabilities of water.

Oil Emulsion is also used widely in agriculture industry.

Small particle size (about 1-5 micron) contributes to better paraffinic OIL penetration into the PRODUCT and provides more efficient properties needed to achieve**.**

ADVANTAGES

- Reduces torque, drag and differential sticking potential.
- Does not foam, grease, or emulsify in high-pH silicate environments.
- Compatibility with all type of drilling fluids systems (WBM, OBM, SBM).
- Advantageous in extended-reach, deviated, and horizontal wells.
- Lowering the filtercake thickness, reducing the COF of the filtercake, and minimizing the yield strength of the cake.
- Minimizes bit balling.
- Specifically designed for use in freshwater, seawater, and brine applications

PACKING

Khavaran Paraffin offers a full range of paraffin BIT LUBES in a variety of packaging formats. These include: bulk liquid (via tank truck or railcar), and brand new or used drums.

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Faculty of Research & Development in Upstream Industry

Petroleum Engineering Research Division

Drilling & Well Completion Technologies & Research Group

N.I.O.C

Client : Parafin Khavaran Co	Sample ID: : Cy-Shield
Order ID : 1908098	Date of Test: 1395/8/8

Evaluation of sample according to Lubricity test

Test condition	60 RPM & 150 in-lb Force				
	Fluid type	Torque lb-Force	Coefficient of friction	Torque reduction percent	Index
Torque reduction test	Base fluid*	51	0.6	-	-
	Base fluid+ 1% v/v Bit Lub	24	0.2894	41.4	30≈
	Base fluid+ 3% v/v Bit Lub	17	0.2	57.5	40≈

*Bentonite solution (6% in Distilled water)

Result:

According to the test results, In Lubricity test the sample reduced the torque force up to 57.5% . So the sample has good lubricity properties.

Note: Since, the sampling is not performed by RIPI; the results are limited to submitted samples.

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Technologies & Research Group