



OILSPOT-P

SPOTTING FLUID PACKAGE

DESCRIPTION

OILSPOT-P spotting fluid is an effective and easily mixed weighted spotting fluid to free differentially stuck drill pipe. When properly mixed, OILSPOT-P provides a temperature stable spotting fluid in weight ranges up to 18.0 ppg. For economic reasons, it is recommended that the standard MESUCO STUCKBREAKER fluid be used as a spotting fluid when weights less than 10.0 ppg are required.

OILSPOT-P weighted spotting fluids free stuck pipe via the same principle as MESUCO STUCKBREAKER - a direct chemical reaction with the wall cake, allowing the oil to seep behind the pipe.

The chart on the following page is a guide for mixing 100 bbl of OILSPOT-P spotting fluids based on the use of sea water at the water phase. This system works equally well with fresh or saturated salt water. If fresh water is used, it takes slightly more barite to attain the desired weight. If saturated salt water is used, it will naturally take less barite.

MIXING PROCEDURE

Clean the mixing pit and clear all lines of water or water base muds. Add the required amount of diesel, then add OILSPOT-P concentrate through hopper, adding water and mixing thoroughly. Add barite through hopper until the desired weight is obtained.

The more shear applied, the tighter the emulsion becomes. It is virtually impossible to predict the minimum mixing time since each rig has a different mixing system. The rate of shear is important and is proportional to the time required for mixing. That is, the more agitation, the less time required to mix a stable spotting fluid.

MIXING PROCEDURES (RIG SITE OR MIXING PLANT)

NOTE: Make sure mixing pit and circulation lines are as free of water and/or water base mud as possible.

1. Add diesel to mixing pit and start mixing through hopper using Lightning Mixers and/or guns for maximum agitation.
2. While mixing, add OILSPOT-P concentrate through hopper.
3. Add water and continue mixing for one hour after all water has been added.
4. Add barite slowly through hopper, and continue mixing for an hour after all barite has been added.

The following table may be used in determining the type and quantity of material necessary to build approximately 100 bbl OILSPOT-P Spotting Fluid.



TO BUILD 100 BBL OILSPOT-P OIL EXTERNAL PHASE SPOTTING FLUID

<u>WEIGHT DESIRED</u>	<u>SACKS BARITE</u>	<u>SACKS OILSPOT-P CONC.</u>	<u>BARRELS DIESEL</u>	<u>BARRELS WATER</u>
8.5	0	100	57	37
9.1	27	100	56	37
9.5	54	100	55	35
10.8	108	100	55	36
11.1	136	100	53	33
11.6	164	100	52	32
12.1	190	100	51	31
12.5	217	100	52	28
13.2	245	100	52	28
13.6	273	100	51	26
14.1	301	100	53	22
14.7	329	100	53	21
15.1	355	100	52	20
15.5	385	100	50	18
16.1	409	100	51	17
16.7	439	100	51	16
17.7	493	100	50	13
18.1	522	100	49	11
19.3	579	100	48	10

NOTE:

Water can be fresh, sea, or saturated NaCl. (Calculations above based on use of sea water)
 OILSPOT-P concentrate represents 5.0% of system volume (50 ppb). For economic reasons, we
 recommend the standard MESUCO STUCKBREAKER spotting fluid be used when stuck using muds less
 than 10.0 ppg.

OILSPOT-P is a Messina trademark

