RIG OIL sales & services

INFORMATION

CA-FL3

FLUID LOSS ADDITIVE

DESCRIPTION

CA-FL3 is a specially formulated, premium grade fluid loss control additive for selected cementing compositions. This easy to use cement additive is fully compatible with all API cement classifications and other cement additives. CA-FL3 is a temperature stable organic polymer blend in free-flowing powder form.

ADVANTAGES

The application of CA-FL3 fluid loss additive provides the following advantages: Cements - CA-FL3 is fully compatible with all API cements.

Mix Water - CA-FL3 performs well with mix waters containing up to 18% salt (BWOW). CA-FL8 or CA-FL11 should be considered for high salt concentrations.

Free-flowing Powder - CA-FL3 ensures smooth, lump free blending. Compatibility - CA-FL3 is fully compatible with all other cementing additives,

however most accelerators will reduce fluid loss control.

Flash Setting - CA-FL3 prevents excessive slurry "dehydration" thereby minimizing the risk of "flash setting".

Cement Bonding - CA-FL3 improves cement bonding due to water/cement ratio maintenance and inhibited filtrate.

Fluid Loss Control - Small additions of CA-FL3 provide effective fluid loss control in cement slurries.

Temperature - CA-FL3 can be used at temperatures up to 300° F (150° C).

APPLICATION

CA-FL3 can be used in many diverse applications in primary and secondary cementing operations including casing cement slurries (especially where porous/permeable formations are encountered), lost circulation slurries, cement plug slurries in sand/sandstone formations, and "squeeze slurries".

CA-FL3 is normally used in concentrations ranging from 0.6% to 0.8% by weight of cement. Pilot tests should be made to evaluate the optimum concentration of CA-FL3 required. All

parameters should be considered, including anticipated pressure and temperature, cement type and other additives to be used in the slurry in order to ensure evaluation accuracy.

RECOMMENDED TREATMENT

CA-FL3 can be either dry blended or prehydrated in the slurry mix water. CA-FL3 should be prepared using the following recommended procedures when prehydrated in the slurry mix water:

- The rig tank or mixing pit used for the slurry mix water should be thoroughly cleaned and checked for bad valves, leaks, etc.
- All discharge and suction lines should be flushed to remove drilling fluid sludge and debris.
- The required volume of slurry mix water should be added to the pit, allowing some excess for pit suction, and in case of emergency.
- Add the required quantity of CA-FL3 to the mix water at a rate of 10- 15 minutes per sack to promote smooth mixing and dispersion.
- Add any other additives that may be required.
- Maintain the slurry mix water in constant agitation prior to the cementing operation using agitators, gun lines etc. This will ensure even dispersion of all chemical additives.
- When prehydrating additives in the slurry mix water, 10-15% extra mix water should be treated at the recommended rate in case additional treated mix water is required.

SAFETY AND HANDLING

Normal precautions should be taken when handling CA-FL3. Protective gloves, goggles and masks should be worn by rig personnel when mixing this product. Eye contact with CA-FL3 could result in slight irritation. In this case, the eyes should be thoroughly flushed for a period not less than 15-20 minutes. If skin contact is for a prolonged period of time, CA-FL3 may cause irritation and in some cases a minor burn. The skin should be thoroughly flushed with water.

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INFORMACION

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MISCELLANEOUS

CA-FL3 is an extremely effective fluid loss control additive in fresh water slurry preparations. At low temperatures, CA-FL3 has a retarding effect on cement slurries and an accelerator may be required to minimize W.O.C. time. In slurries prepared with extenders, filtration control is very difficult and expensive, due to the higher water content required. Pilot tests should always be made in order to provide an accurate evaluation of slurry performance where a combination of additives will be used.

PACKAGING

CA-FL3 is packaged in 50 lb (U.S.A.), and 25 kg (Europe, Africa, Middle East) export quality sacks.