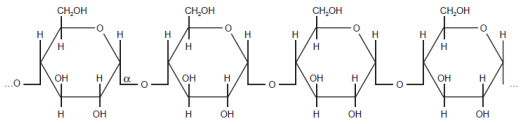
CLEAN-STAR®

ProductDataSheet

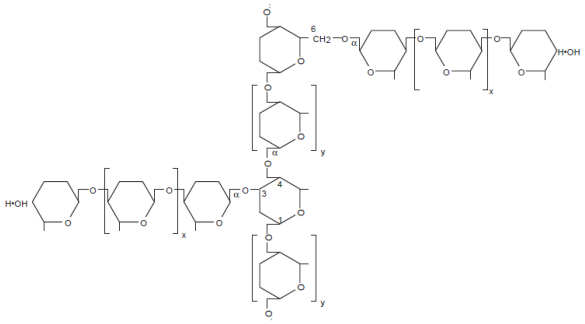
DRILLING STARCH (FILTRATION CONTROL ADDITIVE)

Description

Natural non-ionic polymer readily soluble in fresh and saltwater environments. Used in drilling muds to reduce mud filtrate in most water-based systems. CLEAN-STAR consists of two types of polysaccharides: amylopectin and amylose. During the manufacturing process pregelatination occurs: the starch is heated until protective amylopectin coating is ruptured and inner amylose is released.



Amylose



Amylopectin

Applications/Functions:

- lowers filtration rates in most water based mud systems
- easily soluble in water
- improves wellbore stability

Advantages

- remains stable in high hardness environment
- contains biocide to prevent fermentation
- non-damaging, is recommended to use in reservoir drilling fluids
- promotes elevated LSRV values in horizontal sections

Recommended treatment

5-17 kg/m3 (1,8-6 ppb) depending on the mud type and desired fluid loss. If bioactive makeup water is used (e.g. stagnant pond water), it is recommended to additionally treat the system with biocide to prevent polymer biodegradation.

Typical properties:

- Appearance: free flowing fine creamy powder
- pH 1% water solution: 6-8

Packaging:

CLEAN-STAR is packaged in 25 kg paper or plastic multi-layer bags

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