Aquabloc HT

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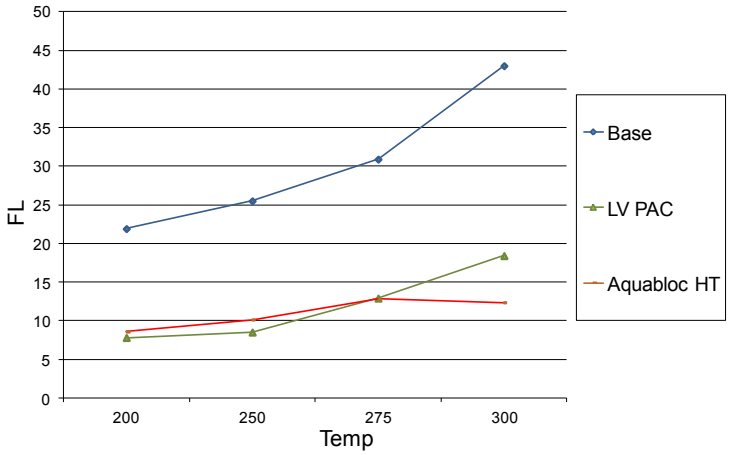
Aquabloc HT is Carboxymethyl Starch or Poly Anionic Starch. It is manufactured as a fluid loss control agent for water based drilling fluids. Aquabloc HT is crosslinked and this provides greater tolerance to heat, shear and salts compared to un-crosslinked carboxymethyl starches and PACs.

Properties

Aquabloc HT provides fluid loss control over a wide range of temperature and conditions. The product is designed as an economical alternative to CMC or PAC products. The crosslinking in the Aquabloc HT produces better temperature and shear performance than PAC,s particularly LV PAC's. It can be used in combination with PAC/CMC as a low cost extender and there is reported evidence that a synergy can exist between Carboxymethyl starch and PAC producing better results than either individually. It is common to use a 1:1-3:1 ratio of Aquabloc HT to PAC. Aquabloc HT is effective up to 300*f and above. Although effective at lower temperatures, we recommend Aquabloc HT if the circulating temperature is in excess of 225*f. The crosslinking also provides better salt tolerance for use in high salt mud's. The high level of modification on the Aquabloc HT also offers effective protection against biological attack and a biocide is neither contained nor required.

High temperature Fluid Loss



Fluid loss in Salt

4% Salt water	6.6 mls
Saturated Salt	6.2 mls

Aquabloc HT is effective at low concentrations ranging from 0.5 PPB (0.71kg/CM). Down hole, the Aquabloc HT forms a thin resilient low permeable filter cake which minimizes the potential for differential sticking, and the invasion of damaging filtrate and mud into the formation.

Characteristics

- Appearance — Off White Powder
- Ionic Character — Anionic
- Moisture — <12%
- pH — 8-10
- Density — 1.5

Applications

- Oil and Gas Drilling

Environmental

- Fully biodegradable

Packaging and Product Form

- 50 lb paper sacks
- 25lb pales