SL-BPPCA | A novel microbial polymer profile and plugging control agent

Product Description

BPPCA is a micromolecular polysaccharide polymer produced by microbial fermentation with sugar as its raw materials. Its chemical construction is linked by the β-1, 3-D-glucoside solely. The active valence is little in its inner groups.

Technical Indicators

The most prominent feature of BPPCA system is that, under the conditions of above 80℃, it is able to form solid irreversible gel without requiring specific cross-linking agent. The microstructure of the gel presents special spiral structure; the macrostructure of the gel exhibits good hardness and viscoelasticity.

When the BPPCA is used as the plugging & profile control additive of oilfield, its tolerance performance is superior to the conventional additives in extreme environments.

Product Features

High Temperature tolerance  High salinity tolerance  Acid and alkaline tolerance  High salinity tolerance

1. BPPCA will form a high thermal stability irreversible gel at high temperature and it has high tolerance to the temperature, pH, salinity, pressure, and shear forces.

2. The high stability of BPPCA gel can keep well plugging valid up to 6 months.

3. BPPCA will be dispersed in cold water easily, and has strong liquidity, easy mixing and good pump liquidity.

4. BPPCA has controllability in plugging position and gelling time, according to its single temperature-sensitive characteristics, user can control the formation plugging position by BPPCA through adjusting the heating time, to achieve different plugging result, thereby to achieve controllable plugging.

BPS is a micromolecular polysaccharide polymer produced by microbial fermentation with sugar as the raw materials. The chemical construction of the BPS is composed of D-glucose, D-glucuronic acid and L-rhamnose units. The structure formula is:

● Excellent rheological characteristic such as suspension and water solubility

The viscosity of BPS increases with its concentration increased, meanwhile, BPS has high flexibility. BPS with a low concentration can be able to have a high viscosity. At 25℃, the viscosity of 1.0% aqueous solution of BPS can reach 3300mPa.s, amount to equivalent to twice as much as xanthan gum and 100 times as much as gelatin.

● Better Pseudoplastic

BPS has good property of shear thinning, and with the increase of concentration of BPS, the fluid shear-thinning behavior was enhanced.

● Good Tolerance against Wider Temperature Range

http://www.sloilfield.com

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At 25 ~ 100°C, apparent viscosity of BPS changes little, almost unaffected. Even solution with very low concentration also showed high temperature stability.

● Tolerate against more large range of pH (pH value)  In the environment of pH2 ~ 12, the apparent viscosity of BPS with the high and medium density basically does not transform with the pH changing.

● Perfect Tolerance against High Salinity

● Good Synergistic Effect

**Packing and Storage**

Packing: 25kg net kraft paper bag with PE bag inner.

Storage: In the environmental temperature, airtight and dry conditions.