

As we all know, petroleum directly or indirectly provides valuable resources for social development, while HEC (hydroxyethyl cellulose) has the characteristics of thickening, suspending, dispersing, emulsifying, bonding, filming and providing protective colloids, which played a big role in drilling.

HEC ([Hydroxyethyl Cellulose](#)) has excellent salt tolerance, high viscosity, high shear rate, reduced water loss, can improve the stability of the wellbore, keep the uneven rock formation in a stable state, and further improve the rock carrying Ability to limit the diffusion of drill cuttings, prevent damage to the production layer, greatly increase the drilling speed and oil production.



Advantages

1 In drilling mud, it can cool iron and drill cuttings, bring the cuttings to the surface, and improve the rock carrying capacity of the mud

2 HEC can greatly improve the fluid loss performance of mud and greatly increase the stability of mud

3 Applying HEC to drilling mud can inhibit the dispersion of clay in the well and prevent the well from collapsing

4 HEC can also use the same mud for drilling and completion processes, reducing dependence on other dispersants, diluents and pH regulators.

Application:

1. Drilling fluid
2. Fracturing fluid
3. Well completion and workover