

SidleyCel™ Hydroxyethyl Cellulose (HEC)

Application Guide for Oil-Field Industry

Applications in Oil Well Cementing and Drilling

1. SidleyCel™ Hydroxyethyl Cellulose can be used as a thickener and cementing agent of workover fluid for oil wells. It helps to provide with the clear solution with a low fixed content, thus greatly reducing the damage to the structure of oil wells. The liquid with Hydroxyethyl Cellulose used for thickening gets easily decomposed by the acid, enzyme or oxidizing agent, and greatly enhances the ability of hydrocarbon recovery.

2. In the oil well fluid, SidleyCel™ Hydroxyethyl Cellulose is used as the carrier of proppant. These fluids can be easily decomposed by the processes described above.

3. The drilling fluid prepared with the use of SidleyCel™ Hydroxyethyl Cellulose, based on its function of low solid content, can effectively improve drilling stability. The fluid with these properties can be used in drilling in the rock layers of medium to high hardness, and heavy shales or mud shales.

4. In the operation of cement reinforcement, SidleyCel™ Hydroxyethyl Cellulose can reduce the hydraulic friction of slurry, and minimize the water loss from loss of rock layers.

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