

Wax Inhibitor

Wax deposition occurs when paraffin is precipitated, gathered and deposited on the pipe wall. In the later stage of development, due to the change of oil production geology and process conditions, the wax deposition in oil wells becomes more complex. The paraffin molecules dissolved in crude oil that can form solid crystal lattice are the main source of wax formation in oil wells.

ATKS-13 paraffin remover and inhibitor is an oil-soluble nano paraffin remover and inhibitor. The agent has the functions of paraffin remover and paraffin inhibitor, which can not only dissolve and remove wax deposits, but also prevent the precipitation of wax crystals in crude oil. It is mainly used in long-distance crude oil pipeline, oil pipe, downhole pump and oil-bearing formation blocked by wax deposition. Its main components are organic solvents, surfactants and nano-grafted polymers.

1. Technical Principles

- (1) The organic solvent mainly dissolves the wax deposited on the pipe wall;
- (2) The surfactant can help the organic solvent penetrate along the gap in the deposited wax and the gap between the pipe wall to increase the contact surface, improve the dissolution rate, and promote the wax deposited on the pipe wall surface to fall off from the pipe wall surface;
- (3) Nano-grafted polymer can make the polymer and the wax crystals first precipitated in the crude oil form a eutectic, and prevent the wax precipitated, so as to achieve the purpose of viscosity reduction and pour point reduction, and also hinder the wax deposition and play a certain wax control effect.



3. Scope of Application

Remove and prevent wax deposition in production wells and crude oil gathering and transportation pipelines.

4. Packaging, storage and transportation

200kg galvanized iron drum or plastic drum.

Stored in a cool and dry warehouse with a shelf life of 1 year.