millennium energy
Drilling Fluids & Chemicals

Products Data Sheet

1. PRODUCT NAME : ME-SCALE BAN ,Phosphonate Scale Remover Remover COMPOSITION / INFORMATION ON INGREDIENTS:

ME-SCALE BAN is a water-based organic phosphonate scale inhibitor. It is designed to provide multifunctional scale inhibition over a wide temperature range.

Calcium carbonate scale, calcium sulfate scale and barium sulfate scale are important factors that lead to the plugging and corrosion of injection Wells and oil reservoirs. When reach to the production of low-permeability reservoirs the continuous operation of water injection etc were adopted more and more. The water content of injection Wells made troubles.
scale damage to oil reservoirs, resulting in reduced recovery rate, shortened operation cycle of injection Wells, wear or scale erosion of equipment, and scrapped pipelines.

In addition to phosphate groups,**ME-SCALE BAN** organic phosphates also contain hydroxyl, ether, carboxyl and sulfonic groups. **ME-SCALE BAN** Phosphate has strong chelating effect on many metal ions in water, such as Ca2 +, Mg2 +, Fe2 +, Zn2 +, etc. The solubility of the chelate is large, and the chelated metal ions can not combine with the anions of the scaling material to form precipitation, so it plays a scale inhibition role. In addition, **ME-SCALE BAN** phosphate anion also has dispersing effect and lattice distortion effect, so it has strong scale inhibition ability.

ME-SCALE BAN scale inhibitor is designed for continuous or batch treatment. The amount used and the effectiveness in the system depends on the composition and concentration of mineral salts in the water and key system conditions such as temperature and pH.
ME-SCALE BAN scale inhibitor may cause issues with the performance of zirconium-based crosslinkers. It can be used during hydraulic fracturing treatments, in bull-heading applications, and squeeze treatments. It is compatible with the major classes of friction reducers used during fracturing applications.
Apperance: Transparent liquid Gravity: 1.0-1.02 Flash point: 30°C

Typical dosages used during fracturing treatments range from 0.1 to 0.5 gallon per thousand gallons of fracturing fluid.