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Oil field chemical: Chemical production chemistry

The well flow contains several different contaminants, such as salts, chalk and traces of radioactive materials. As pressure and temperature change, these may precipitate and deposit in pipes, heat exchangers, valves and tanks. As a result, they may clog up or become stuck. The scale inhibitor prevents the contaminants from separating out. Scale or sediment inhibitor is applied to wellheads and production equipment. It is used to prevent the deposition of mineral scale that may occur in the pores of rock formations, in down hole pipe work, surface treating facilities, and refineries.

Aqueous acids are used to stimulate production from reservoirs. Such acids expose oil production systems to the possibility of corrosion. Thus corrosion inhibitors are required to protect the down hole pipework and vessels of oil production facilities. Corrosion inhibitor is also injected in export pipelines and storage tanks. Exported oil can be highly corrosive, leading to corrosion of the inside of the pipeline or tank. The corrosion inhibitor protects by forming a thin film on metal surfaces.

Biography

Ahmed Mohamed Al Dhuhoori- Corrosion Engineer working in ADNOC OFFSHORE COMPANY – Ahmed Holds a bachelor degree in Chemical Engineering (2008) and NACE Certificate in CP, Coating Inspection, Internal Corrosion of Pipeline. Ahmed Works as Field Engineer as Integrity Engineer in the Department of Plant Asset Integrity in Different Fields (Upper Zakum , Zirku Field).

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