



EXPLORATION CHEMICALS

Problems in the upstream oil and gas industry can occur during the drilling process, such as formation loss and excessive mud loss. The chemicals we develop are intended to overcome various problems that occur in the upstream oil and gas industry.

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INTRODUCTION

UPSTREAM AND DOWNSTREAM CHEMICAL IN OIL AND GAS INDUSTRY

ZEKINDO oilfield specialty chemical (OFC) products are customized to cater to the customer needs for all related oil, gas, and water treatment applications in oil and gas industry.

Our products ranging from Water Based Mud Additives, Oil & Synthetic Based Mud Additives, Cementing & Stimulation Additives for drilling & workover activities; Flow Assurance Chemicals to prevent blockages issues caused by scale, paraffin, and asphaltenes; Asset Integrity Chemicals to ensure reliability and safety of the facilities, Phase Separation Chemicals to maximize production quality output in onshore and offshore production facilities; Crude Storage Additives, Crude Distillation Unit Additives, and Fuels Additives in refinery plants.

OFC EXPLORATION CHEMICALS

WATER BASED MUD ADDITIVES

ANTIFOAM

ZEKINDO provides alcohol and silicone based antifoam capable of effectively removing entrapped air from all types of water based mud under severe field conditions in a wide range of operations.

FOAMER

Our product is water soluble foamer for drilling, which is manufactured by blending of anionic surfactant and foam stabilizer. It is designed to produce high performance and stability foam with excellent solid carrying capacity.

CORROSION INHIBITOR

ZEKINDO provides a brine soluble or water dispersible corrosion inhibitor. Our corrosion inhibitors are including Imidazoline and Diamine-based oil soluble corrosion inhibitors.

DRILLING LUBRICANT

Biodegradable drilling mud lubricant suitable for application all water-based mud formulation. It is intended for significant reduction of torque and coefficient of friction (COF) during drilling operation reducing overall drilling cost and material wear.

BIOCIDE

ZEKINDO's Biocide can be used to control sulfate-reducing bacteria, slime-forming bacteria, iron-oxidizing bacteria and bacteria that attacks polymers in fracture and secondary recovery fluids.

Combined Biocide chemistries include THPS - Tetrakis (Hydroxymethyl) Phosphonium Sulfate, Glutaraldehyde, Coco Benzyl Quats, and various bio-penetrant additives.

FLUID LOSS ADDITIVE

ZEKINDO provide a wide variety of fluid loss additive suitable in wide range application temperature.



OFC EXPLORATION CHEMICALS

WATER BASED MUD ADDITIVES

PIPE-FREE ADDITIVE

ZEKINDO's Pipe-free Additive is flexible concentrate which can be mixed with base oil and water to create an effective stuck-pipe pill.

VISCOSIFIER

ZEKINDO supply variety of polymer as viscosifier applicable for saline drilling fluid as well as to viscosify water-based drilling, completion and work over fluids.

THINNER

ZEKINDO supply low molecular weight, highly anionic sodium polyacrylate liquid/powder. Suitable for most WBM specially PHPA system.

SHALE INHIBITOR

ZEKINDO's shale inhibitor are liquid/emulsion Partially Hydrolyzed Polyacrylamide – high molecular weight polymer with moderate anionic charge.

POLYAMINE SHALE INHIBITOR

ZEKINDO shale inhibitor help to prevent the spread of clay to provide cationic properties to prevent ion transfer then prevent scales from hydrating, swelling, and sloughing into the wellbore. Our products contribute to actively bonds to exchange sites in clays and also could latch onto the outer surface of the shale. The polyamine-based products consist of Amine (NH_4^+) is effective in preventing swelling shales and clays by Vander Walls repulsion forces with lower concentration compared conventional ion exchange (K^+).



PIPE-FREE ADDITIVE

ZEKINDO's Pipe-free Additive is also known as spotting chemical which is spotting fluid. It is a flexible concentrate which can be mixed with base oil and water to create an effective stuck-pipe pill.

OFC EXPLORATION CHEMICALS

OIL & SYNTHETIC BASED MUD ADDITIVES

OIL WETTING AGENT

This product will improve oil wettability of drilling solids thereby increase stability of mud and rheology control, also combats increased solids and decreased ROP. This product works over a wide temperature range and in the presence of contaminants.

OIL MUD CONDITIONER

Our oil mud conditioner is formulated to fight formations and disperse accumulations of mud and silt in ballast water tank. It is ideal for removal, dispersion, and prevention of heavy-duty mud, loose scale, rust deposits, silt accumulated and other sediments to form non adhering particle which are easily discharge during de-ballasting.

RHEOLOGY MODIFIER

ZEKINDO's rheology modifier is an oil/synthetic based muds that provides high viscosity at low shear rates, which is useful when drilling high angle and horizontal wells and can be critical for cuttings carrying and to prevent sag and wetting of weighting material.

FORMULATED EMULSIFIER

Primary Emulsifier: ZEKINDO Primary Emulsifier is used to emulsify water into oil in oil / synthetic based mud and provides excellent emulsion.

Secondary Emulsifier: Our Formulated Secondary Emulsifier is used to enhance the wetting characteristics of solid in oil, which is compatible with other oil based-mud additives, effective at low concentration, and can be added directly to the system. This product can be applied for diesel oil-based mud drilling. Our product work effectively at high pressure and temperature, to lower the interfacial tension between oil and water, which forms small drops by allows stable emulsion.



OFC EXPLORATION CHEMICALS

CEMENTING ADDITIVES

ANTIFOAM / DEFOAMER

ZEKINDO provides alcohol and silicone-based antifoam capable of effectively removing gas cuttings during cementing under severe field conditions in a wide range of operations.

DISPERSANT

Our product is very effective to reduce the cement slurry viscosity to improve fluid flow characteristics. Sufficiently dispersed slurry exhibit improved fluid loss control. Therefore, it may displace drilling fluid efficiently.

DRILLING DETERGENT / WELL CLEANER (RIGWASH)

ZEKINDO offers one of an effective surfactant series in order to clean and prevent the well bore area from agglomerating and plugging, and sticking of clay, shale properties, cutting material in the drilling string. It also effective to decreased the torque and drag friction between drilling string and well bore.

SPACER

ZEKINDO provides Spacer fluids which may effectively reduce loss invasion of cement slurry, mitigating lost circulation issues after drilling mud or before cement enters the annulus.

CORROSION INHIBITOR

ZEKINDO's corrosion inhibitor is designed for application in low solids, non-dispersed bentonite based drilling fluids, brine water systems and air mist/stable foam drilling operations.

EXTENDER

ZEKINDO has Extender that used to increase the yield also decrease the density of cement slurry therefore it will reduce the hydrostatic pressure of the cement column and may create success cementing operation for the weak zones.



OFC EXPLORATION CHEMICALS

CEMENTING ADDITIVES

FRICTION REDUCER

Our Friction Reducer chemical is used to reduce the friction pressures of cement slurry while being pumped into the well. Therefore, it also reduces the frictional forces that encountered by tools.

RETARDER

ZEKINDO's Retarder is designed to create exact placement of cement slurries by increase the thickening time. Depth and Temperature will be the most important aspect to use extender due to the need of accurate time to complete the cementing operation.

PACKER FLUID ADDITIVES

Our packer fluid additives provide hydrostatic pressure that can be effectively used to reduce differential pressure in sealing element, well, and casing. It also solves several problems in packer fluid, such as corrosion, microbe accumulation, and dissolved oxygen in brine. It also can be used in the well completions with sufficient density, solid-free, and viscosity resistant properties.

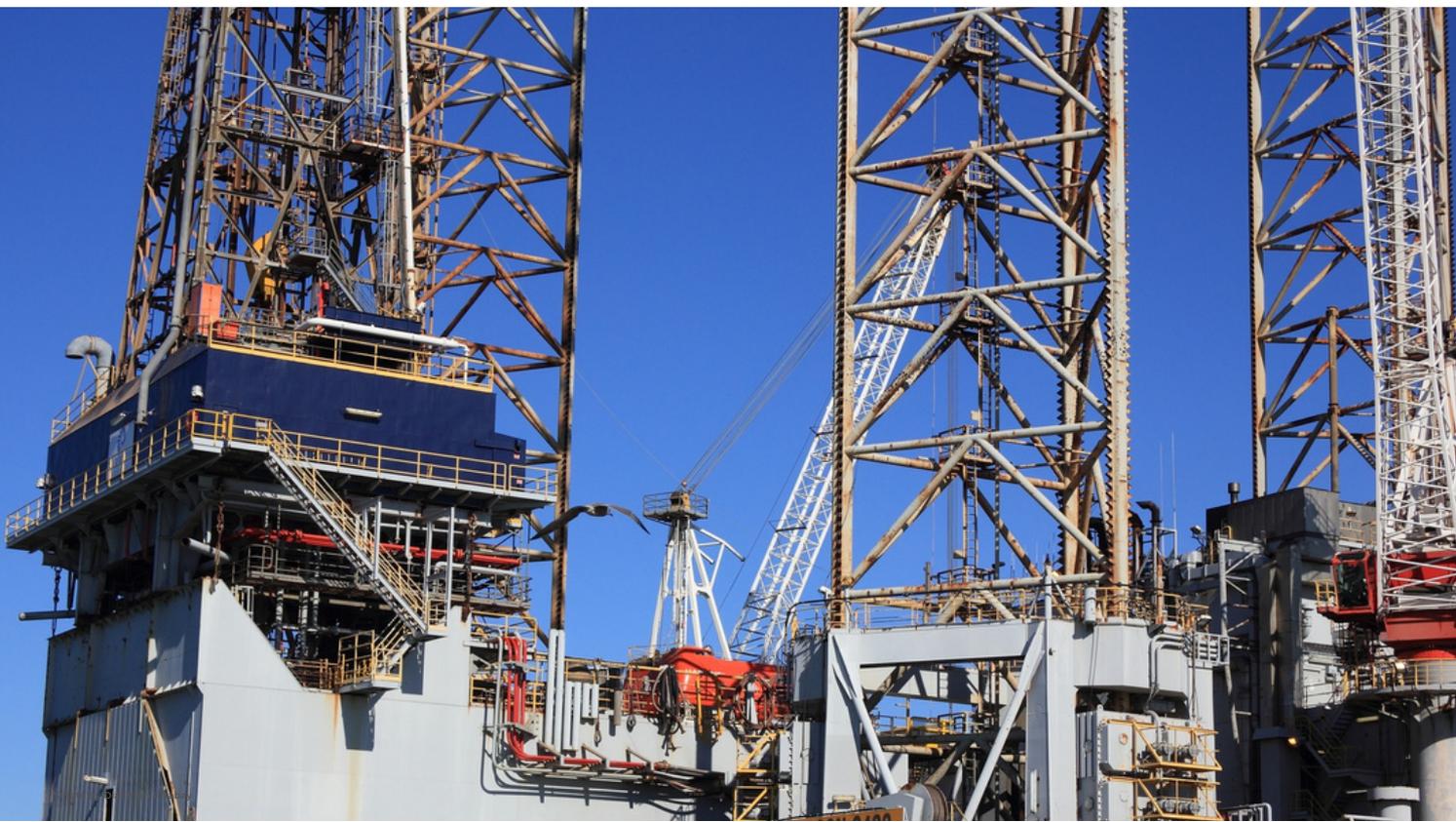




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