

PRODUCTION CHEMICALS

In the oil and gas drilling process, one of the toxic gasses is produced, H₂S gas which can cause sudden death. So, the chemical usage to remove H₂S gas can be done to prevent these problems. Our products are proven to effectively minimize the formation of H₂S emissions.

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INTRODUCTION

UPSTREAM AND DOWNSTREAM CHEMICAL IN OIL AND GAS INDUSTRY

ZEKINDO oilfield specialty chemical (OFC) products are customized to catered 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 PRODUCTION ENHANCEMENT CHEMICALS

STIMULATION ADDITIVES



ACID CORROSION INHIBITOR

ZEKINDO's corrosion inhibitor is used in acid system to prevent acid damage of the well and other tools, protect iron and steel components in treating equipment from corrosive treating fluid. It also has good stability in high temperature for anticipated duration of the treatment.

CROSS LINKER

ZEKINDO's cross linker may enhance the effective molecular weight of the binding polymer chains in Water Shut-Off Application, which increases the viscosity of the fracturing fluid, enhancing the proppant carrying capacity while reducing fluid loss. It can react with multiple-strand polymer to couple the molecules. By adjusting the concentration and injection period, It also help to manage the required time and placed section in placing the water shut-off polymer.

ACID GELLING AGENT

ZEKINDO provides viscous cationic polymer used as gelled acid solution with its fast-hydrating viscosity when mixed into acid or water. It will decrease fluid leak off and acid, resulting in deeper acid penetration. Our product also may increase the viscosity of foamed live or spent acid, thus improving foam stability.

DIVERTING AGENT

Our Diverting Agent is also known as chemical diverters. It will form the transient blocking effect, create filter cake inside wormholes which block high permeability pathways within the matrix, therefore will increase the productivity through the treated interval area.

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.

FLOWBACK AID

ZEKINDO help to enhance clean-up of the spent fluids while hydraulic fracturing activity and ultimately improve gas or oil migration and recovery when production begins after stimulation activity.

OFC PRODUCTION ENHANCEMENT CHEMICALS

STIMULATION 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.

OXYGEN SCAVENGER

ZEKINDO provides oxygen scavenger chemical to reduce corrosion as the result from dissolved oxygen activity. This product will capture the dissolved oxygen that may cause a harmful chemical reaction that renders the oxygen unavailable for corrosive reactions.

POLYMER FOR WATER SHUT-OFF

Due to water production control is a key issue in most mature reservoirs worldwide, we provide polymer for Water Shut Off (WSO) treatment. Our product is designed to chemically prevent and reduce unwanted water and periodically close the water channeling zone.

IRON SEQUESTERING AGENT

ZEKINDO provides an aqueous solution of acid to prevent the formation of iron-as-phaltenic solids. It will prevent the precipitation of an iron from spent acid solution.

GAS WELL DELIQUIFICATION

Gas Well Deliquification takes place when our environmental friendly foamer is introduced into the well and creates the necessary amount of foam, able to unload and let the gas production to be restored and increased.



OFC PRODUCTION CHEMICALS**PHASE SEPARATION ADDITIVES****POWERPHASE™**

POWERPHASE emulsion breakers are specifically formulated to handle variety of fluid conditions and applications. Based upon a review of your system and product testing, ZEKINDO can recommend the appropriate emulsion breaker to improve your process or handle a specific problem.

Application : Demulsifier / Emulsion Breakers

POWERCLEAR™

In oil production system, water quality is a major concern where produced water is injected back into the formation or discharged to the environment, either for disposal purposes or for use in water flood operations. These concerns are both economic and environment, ZEKINDO has a wide range of water clarifier products under **POWERCLEAR** product line to treat produced water to meet water quality specification. Our water clarifiers consist of Coagulants, Flocculants, and Anionic / Cationic charged polymer.

Application : Water Clarifiers / Deoiler

POWERFOAM™

POWERFOAM is ZEKINDO's highly effective and durable antifoam emulsion specially developed to offer excellent foam control in a variety of surfactant concentrate and foaming process. It displays superior dispersibility in both non-ionic and anionic aqueous foaming media.

Application : Defoamers / Antifoam



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OFC PRODUCTION CHEMICALS

FLOW ASSURANCE ADDITIVES

POWERWAX™

POWERWAX is ZEKINDO product line to treat paraffinic and asphaltenic type of crudes. **POWERWAX** as Pour Point Depressant (PPD) or Wax Inhibitor (WI) is a specially designed product to inhibit paraffin deposition; reduce pour point and lower viscosity. ZEKINDO PPD/WI has been developed to provide better pump ability and reduced flow resistant for crude oil in production and pipeline operations where temperature changes would otherwise cause congealing, increased flow resistance and eventual plugging of flow lines and pipelines. In untreated waxy crude, wax/paraffin deposition is common. Paraffin deposition could cause plugging and production decline.

ZEKINDO **POWERWAX** formulation could also act as wax dissolver to help chemical dissolution treatment to effectively and efficiently remove paraffin wax deposits, dissolving the paraffin regardless of structure, size, or melting point. This process requires much less energy compared with melting the wax crystals. Solvent effectiveness improves with increased temperature and agitation.

Application : Wax Inhibitor / Pour Point Depressant (PPD) / Wax Dissolver

POWERFLO™

POWERFLO is blend of surfactant and rheology modifier to reduce oil-water surface tension and liquid viscosity. Natural oil-water emulsion will increase surface tension and so will the viscosity of the mixture. **POWERFLO** unique formulation could lower the surface tension to reduce the overall viscosity. It will also alter wettability of the fluid against pipe wall. The results are less back pressure and improve flow as well as throughput.

Application : Flow Improver / Viscosity Reducer

POWERSCALE™

POWERSCALE is a synergistic of various chemistries of neutralized acid phosphonates, poly maleic or acrylic chemicals. The product exhibits chelating and crystal distortion effects on Barium and Calcium scale forming waters. The results are less back pressure **POWERSCALE** and improve flow as well as throughput.

Application : Inorganic Scale Inhibitor



OFC PRODUCTION CHEMICALS

FLOW ASSURANCE ADDITIVES

POWERDRAG™

Drag-reducing agents (DRA) are additives in pipelines that reduce turbulence in a pipe. In oil and gas production, the application of DRA could substantially increase the pipeline capacity by reducing turbulence and therefore allowing the oil to flow more efficiently. **POWERDRAG** is ZEKINDO polymer-based product that act as DRA. Application of **POWERDRAG** in just a few parts per million, helps to reduce the flow friction and turbulence inside the pipe altering the flow pattern from turbulence to laminar regime. Laminar flow will have lower Reynold number and consequently reducing the friction factor.

Application : Drag Reducer (DRA)

THERMOCONSERVANTECH™

ThermoConservantTech is a chemically based technology on converting thermally used on waxy crude handling to chemically treatment resulting on the energy cost saving as the main target. **POWERWAX** as part of the **ThermoConservantTech** is a flow improver technology specifically focusing in controlling wax crystallization, ensuring pumpability, and formulation compatibility. The oil additives specialists at ZEKINDO enhancing for solutions to meet low temperature challenges and energy saving, including the latest current and innovative technological solutions covering viscosity and friction reduction to store and transport such waxy crude oils from production facilities to crude storage tank farms. Lowering operating temperature and viscosity of waxy or high pour point crude oil in the crude transportation process will significantly impact to the energy savings by reducing all related heating system application costs.

Application : Energy Conservation / Saving



OFC PRODUCTION CHEMICALS

ASSET INTEGRITY ADDITIVES

POWERBIO™

POWERBIO is line oxidizing and non-oxidizing micro biocide for the control of bacteria found in and around oilfield applications. ZEKINDO biocides control aerobic, anaerobic, acid producing and sulfate reducing bacteria.

Application : Biocides

POWEROXY™

POWEROXY is an oxygen scavenger to minimize the oxygen concentrations to protect topside equipment, injection wells and flow lines from oxidative corrosion.

Application : Oxygen Scavenger

POWERHYDRO™

POWERHYDRO is ZEKINDO special chemical mainly for hydrotest, mothballing, preservation and dewatering operations with a particular focus on achieving environmentally friendly discharge. It can also be used as packer fluid. **POWERHYDRO** is a combination of biocide, corrosion inhibitor and oxygen scavenger components functionalities. It will rapidly remove O₂ and kill Sulfate Reducing (SRB) as well as other offending bacteria that give rise to Microbial Influenced Corrosion (MIC). In deep water operation, hydrotesting, job of pipe spools utilizes Remotely Operated Vehicle (ROV).

Application : Hydrotest / Preservation Fluid / Stick Chemical

POWERCOR™

POWERCOR water and gas based corrosion inhibitor are designed for a variety of applications including reinjection wells, gas plants, refineries, transportation lines, and barges. **POWERCOR** corrosion inhibitors reduce costs and extend the working life of capital assets such as process equipment, pipelines and storage tanks.

Application : Corrosion Inhibitor / Acid Corrosion Inhibitor

POWERSULFA™

POWERSULFA H₂S scavenger provides effective sulfur control in the oil & gas industry. Effective application of H₂S scavenger provides the low H₂S concentration necessary to protect topside equipment, injection well and flow lines from oxidative corrosion impacting also to the healthiness environmentally.

Application : H₂S Scavenger




A large offshore oilfield platform with yellow and white structures, including cranes and smokestacks, situated in the middle of a blue ocean under a clear blue sky. The platform is supported by several legs in the water.

OILFIELD SPECIALTY CHEMICALS MANUFACTURER

MARKETING OFFICE

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