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REFINERY CHEMICALS

The use of chemicals in the refinery processes of the oil and gas industry is aimed to increase the efficiency of physical and chemical separation, conversion, and processing of oil into finished products. We provide a wide variety of products to address problems that can reduce process efficiency, such as foam formation and fouling.

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www.zekindo.co.id



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 REFINERY CHEMICALS

CRUDE STORAGE ADDITIVES

POWERCLEAR™

In oil refinery system, water quality is a major concern where processing waste water is utilized back as a wash water or discharged to the environment. These concerns are both economic and environment, ZEKINDO has a wide range of water clarifier products under **POWERCLEAR** product line to treat waste oily 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

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

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 : Desalter / Emulsion Breakers

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



OFC REFINERY CHEMICALS

CRUDE STORAGE ADDITIVES

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 REFINERY CHEMICALS

CRUDE DISTILLATION UNIT ADDITIVES

POWERBASE™

POWERBASE is a synergistic blend of aqueous solution of non-ionic and anionic surfactants and organic acids. This product is an effective surface-active agent and exhibits good water-wetting properties and detergency over a wide range of applications. It is primarily used to remove sludge or fouling particularly a combined of organic deposits and inorganic material in refinery process equipment.

Application : Antifoulant

POWERCOR™

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

POWERCOR is designed for dealing with variety of low to high temperatures, pressures and sweet and sour conditions in refinery applications.

Application : Corrosion Inhibitor / Acid Corrosion Inhibitor

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

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 : Desalter / Emulsion Breakers



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Application : Defoamers / Antifoam

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.

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

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 and improve flow as well as throughput.

Application : Inorganic Scale Inhibitor



OFC REFINERY CHEMICALS

FUELS ADDITIVES

POWERANOX™

POWERANOX is a highly effective antioxidant in jet fuels, gasoline, and industrial oil. The additive is designed to meet petroleum refinery requirements as per grade of refining. **POWERANOX** basic function is to stabilize fuels, prevent oxidation in lubricants, and the polymerization in gasoline that leads to the formation of machinery-fouling residues.

Application : Fuel Antioxidant

POWERFLO™

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Application : Flow Improver / Viscosity Reducer

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Application : Energy Conservation / Saving



OILFIELD SPECIALTY CHEMICALS MANUFACTURER




Photo by Loic Manegarum: on Pexels

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