DORF KETAL chemical technologies for PHASE SEPARATION provide specially formulated solutions designed to increase productivity and reduce environmental impact in oil and gas production processes.

LEARN MORE



SAFETY FIRST

Discover what Dorf Ketal can do for you.

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PHASE SEPARATION

DORF KETAL HAS THE RIGHT CHEMICAL TREATMENT FOR YOUR OPERATING CONDITIONS

FOAMTRON™ – Defoamers

HIGH-SILICON DEFOAMER

- High-efficiency defoamer for breaking foam generated during primary crude oil treatment in systems with a maximum GOR of 100 m^3/m^3.
- Its reduced silicon content minimizes the impact on hydrotreating catalysts in refineries.
- Suitable for topside or umbilical injection.
- Excellent stability under high-pressure and high-temperature conditions.
- Low viscosity.

LOW-SILICON, HIGH-PERFORMANCE DEFOAMER

- Highly effective at breaking foam during primary crude oil treatment at GOR values of up to 200 m^3/m^3.
- Polydimethylsiloxane-based products that are organochlorine-free and have a low free-hydroxyl content.
- Suitable for topside or umbilical injection.
- Excellent stability under high-pressure and high-temperature conditions



DORF ENERGY DIVISION KETAL™

DEFOAMER FOR HIGH GOR

- High-efficiency defoamer for breaking foam generated by depressurization in high-GOR systems (GOR > 200 m^3/m^3).
- Polydimethylsiloxane-based formulation in organic solvents, free of organochlorine compounds and with a low aromatic content.
- Stable under high-pressure conditions and across a wide range of temperatures.
- Low viscosity.

NON-FLAMMABLE DEFOAMER

- Non-flammable, polydimethylsiloxane-based defoamer formulated in organic solvents, free of organochlorine compounds and with a low aromatic content.
- Excellent foam-breaking efficiency during primary crude oil treatment.
- Stable under high-pressure conditions and across a wide range of temperatures.

BREAKPLUS™ – Demulsifiers

DK develops demulsifiers optimized for specific operating conditions and application types:

FOR TOPSIDE INJECTION POST-SALT (OFFSHORE AND ONSHORE)

- Dorf Ketal offers both specialty and conventional technologies.
- Provides effective naphthenate removal, even at elevated temperatures.
- Water-soluble and oil-phase-dispersible.
- Performs effectively in medium- to high-API-gravity crude oils.

FOR TOPSIDE INJECTION PRE-SALT (OFFSHORE)

- Specially developed to break emulsions in light crude oils (26–30° API).
- Suitable for high-salinity conditions.
- Suitable for high gas-oil ratios (GOR > 200 m^3/m^3).
- Produces a sharp oil-water interface and good separated-water quality.
- Low viscosity.

FOR HEAVY AND EXTRA-HEAVY CRUDE OILS (ONSHORE AND OFFSHORE)

- Synergistic action of active ingredients designed for crude oils with high concentrations of paraffins, asphaltenes, heavy metals, and polar compounds.
- Breaks emulsions even at low temperatures while enabling production to meet all required specifications.
- Significantly improves flow rate and production performance.
- Produces a sharp oil-water interface and good separated-water quality.

MAXFLOC™ – Coagulants and Flocculants

Water treated with the care it deserves. Recommended for continuous application in produced-water treatment plants.

READY-TO-USE CATIONIC POLYELECTROLYTES

- Provide high removal efficiency for organic matter and suspended solids present in the water.
- Easy to handle, requiring only a simple dosing and injection system; supplied ready to use.
- Stable in high-salinity water.
- Provide an excellent cost-benefit ratio for water clarification applications.

POLYACRYLAMIDES

- Provide high removal efficiency for organic matter and suspended solids present in the water.
- Available across a broad range of molecular weights and ionic charge characteristics.
- Include cationic, anionic, and nonionic polyacrylamides.
- Suitable for extensive use in high-salinity environments.
- Supplied as emulsions or powders.

ORGANIC COAGULANTS

- Coagulants with different cationic charge densities and molecular weights, providing rapid action.
- Destabilize charged species in the system through specific functional groups that promote the formation of insoluble complexes in the aqueous phase.
- Suitable for extensive use in high-salinity environments.
- Ready-to-use products.

BIODEGRADABLE FLOCCULANTS

- Derived from tannins and other renewable sources.
- Easy to apply, with no need for pre-dilution with fresh water.
- Aid in metal removal.
- Ready-to-use products.



MAXFLOC™ BIO – Product Line for Iridescence Control

COAGULANTES, FLOCULANTES E REMOVEDORES DE ORGÂNICOS E INORGÂNICOS EXÓGENOS

Iridescence is an optical phenomenon in which certain surfaces reflect rainbow-like colors. In the context addressed by applicable regulations, the appearance of rainbow-like colors on the water surface indicates the presence of small amounts of oil.

In Brazil, CONAMA Resolution No. 393/2007 specifically establishes standards and requirements for the discharge of produced water from offshore platforms. It specifies that, for produced water discharged into the sea, companies must comply with a monthly arithmetic mean oil and grease concentration not exceeding 29 mg/L.

Iridescence control requires a multidisciplinary approach and, therefore, treatment programs tailored to each operating scenario. Dorf Ketal iridescence-control products offer the following characteristics:

- Synergistic action of specialty additives, coagulants, and flocculants.
- Control iridescence by removing phase stabilizers such as oxidized iron and soluble and insoluble organic compounds while reducing total oil and grease (TOG).
- Easy to handle and inject when standard chemical-handling precautions are followed.
- Do not increase produced-water ecotoxicity when appropriate active chemical ingredients and molecules are combined and the maximum recommended dosage is observed.

SYNTREAT™ - Multifunctional Products

Available in flammable and non-flammable versions.

DEMULSIFIER + DEFOAMER (SUBSEA SEPARATORS)

- Effective emulsion breaking and viscosity reduction, improving fluid lift and optimizing production.
- Rapid foam-breaking action under high gas-oil-ratio conditions.
- Excellent brine compatibility.
- Stable under high-temperature and high-pressure conditions.

DEMULSIFIER + SCALE INHIBITOR (SUBSEA SEPARATORS)

- Effective emulsion breaking and viscosity reduction, improving fluid lift and optimizing production.
- Excellent control of inorganic scale formation.
- Excellent brine compatibility.
- Stable under high-temperature and high-pressure conditions.

DKSORB™ – Molecular Sieves

MOLECULAR SIEVES

- Drying and CO_2 removal from natural gas, LPG, air, inert gases, atmospheric gases, and other gas streams.
- Removal of hydrocarbons, ammonia, and methanol from gas streams.
- Adsorbents for the removal of water, CO_2, and H_2S from sour natural gas streams.

ACTIVATED AND HYBRID ALUMINAS

- Suitable for hydrocarbon streams.
- High adsorption capacity for a broad range of polar molecules, including H_2O, oxygenates, organic sulfur compounds, and nitrogen compounds.