DORF KETAL'
FLOW ASSURANCE
chemical technologies provide specially formulated solutions designed to prevent blockages in liquid and gas flowlines during oil and gas production operations.

LEARN MORE







SAFETY FIRST

Discover what Dorf Ketal can do for you.

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FLOW ASSURANCE

DORF KETAL HAS THE RIGHT CHEMICAL TREATMENT FOR YOUR OPERATING SCENARIO



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DORF KETAL ENERGY DIVISION

Flow assurance is the process of ensuring uninterrupted oil and gas production by minimizing restrictions on fluid flow.

DORF KETAL has extensive experience in primary crude oil treatment for both onshore and offshore operations, ranging from conventional applications to the most challenging conditions, including deepwater and ultra-deepwater environments, high salinity, and high temperatures, and covering crude oils ranging from light to extra-heavy.

Dorf Ketal develops and manufactures scale inhibitors customized to the specific requirements of each application using rigorous technical protocols. This approach makes it possible to optimize cost-effectiveness for each application.

The **DORF KETAL FLOW ASSURANCE LABORATORY** is staffed by an experienced team of specialists and supported by comprehensive infrastructure dedicated to developing new molecules, customizing products, simulating specific operating conditions using application-specific protocols, and validating chemicals for subsea injection in ultra-deepwater, high-temperature, and high-pressure environments.

DK offers a complete range of threshold scale inhibitors (TSIs):

- Proprietary organic and inorganic phosphonate formulations.
- Proprietary ionic polymers.
- Blends.

SOLVSCALE™ – Inorganic Scale Inhibitors

TOPSIDE

- Excellent thermal stability (>135°C). Stability is further enhanced in oxygen-free environments.
- Low dosage requirements, typically 5–50 mg/L.
- High efficiency in controlling calcium carbonate, barium sulfate, and strontium sulfate scale.

SQUEEZE

- Traceable products containing chemical tracers.
- Excellent adsorption onto rock surfaces, providing extended treatment life.
- Inhibits $CaCO_3$, $CaSO_4$, $BaSO_4$, and $SrSO_4$ scale.
- Highly compatible with produced water containing calcium concentrations of up to 20,000 ppm.

NAPHTHENATE INHIBITOR

- Dorf Ketal offers both specialized and conventional technologies.
- Good naphthenate removal performance, even at elevated temperatures.
- Water-soluble and oil-dispersible.
- Effective in medium- to high-API-gravity crude oils.

SUBSEA

- Excellent thermal stability (>150°C).
- Excellent compatibility with calcium concentrations of up to 15,000 ppm.
- Excellent dispersion throughout the system.
- High efficiency in controlling calcium carbonate, barium sulfate, and strontium sulfate scale.
- Compatible with thermodynamic hydrate inhibitors.

SULFATE REMOVAL UNIT

- Excellent membrane compatibility.
- Compatible with seawater containing calcium concentrations of up to 4,200 ppm.
- Excellent efficiency even in the presence of biocides.

SYNTREAT™ – Combination Treatments

SCALE INHIBITOR + H_2S SCAVENGER

- Excellent H_2S scavenging capacity.
- Good control of inorganic scale.
- Excellent compatibility with brines.
- Excellent thermal stability.
- Does not adversely affect the integrity of metallic or nonmetallic materials.

SCALE INHIBITOR + CORROSION INHIBITOR

- Good control of both inorganic scale and corrosion.
- Suitable for brines with salinity levels of up to 35,000 ppm.
- Good stability at high temperatures and pressures.
- Does not adversely affect the integrity of metallic or nonmetallic materials.

SPEEDFLOW™ – Flow Improvers

FOR SUBSEA INJECTION

- Approved for downhole injection, injection through a subsea tree, or injection via gas lift.
- Recommended for multiphase systems with high BSW.
- Reduces fluid viscosity, helping improve production performance.
- Improves well stability and helps prevent slugging.
- Stable under temperature fluctuations and high-pressure conditions.
- Compatible with metallic and nonmetallic materials.
- Excellent solubility in medium- to high-salinity brines and in brines containing high calcium concentrations.
- Does not form hydrates.



HYDRAFLO™ – Hydrate Inhibitors

THERMODYNAMIC HYDRATE INHIBITOR

- Excellent hydrate control.
- Easy to handle and highly cost-effective.
- Can be dosed at application-specific concentrations.

KINETIC HYDRATE INHIBITOR

- Low-dosage hydrate inhibitor with kinetic action.
- Effective across the full range of water-to-oil ratios.
- Provides a hydrate-free environment.
- Biodegradable.
- Excellent compatibility with corrosion inhibitors and elastomers.

ASPHALTREAT™ – Asphaltene Inhibitors

ASPHALTENE INHIBITOR

- Excellent control of asphaltene agglomeration.
- Low viscosity for easy pumping.
- Compatible with the production system.
- Excellent performance in medium- to high-API-gravity crude oils.

SUBSEA ASPHALTENE INHIBITOR

- Meets key physicochemical requirements for subsea injection.
- Good compatibility with nonmetallic materials used in subsea systems.
- Excellent control of asphaltene agglomeration.

DEWAXY™ – Flow Improvers (transportation, topside, and subsea)

PARAFFIN DISPERSANT

- Operates through a paraffin crystal-modification mechanism.
- Formulated with high-molecular-weight polymers.
- Prevents wax deposition when continuously applied.
- Removes wax deposits when applied as a batch treatment.

DRAG REDUCER

- Reduces turbulent drag, improving hydraulic efficiency.
- Proprietary polymers based on polyalphaolefins or high-molecular-weight polyacrylamides.

POUR POINT DEPRESSANT

- Improves crude oil flow at low temperatures.
- Inhibits and reduces the deposition of paraffins and other organic compounds.

PARAFFIN REMOVER

- Acts as a solvent system to dissolve or disperse paraffin deposits.
- Stable at both high and low temperatures.
- Easy and safe to handle.

MAXCLEAN™ – Cleaners

SCHMOO CLEANER

- Disperses or even dissolves solid agglomerates of organic and inorganic materials, including iron-derived deposits (schmoo).
- Excellent compatibility with conventional brines.
- Can be applied in water reinjection systems.
- Does not promote emulsion or foam formation.
- Nonflammable.

ALKALINE CLEANER – SRU

- Maintains pH within the appropriate range throughout the cleaning process.
- Effectively removes inorganic deposits, reducing membrane differential pressure (ΔP) while maintaining the treatment flow rate.
- Does not promote foam formation.
- Tolerates alkalinity levels of up to 90,000 mg $CaCO_3$/L.
- Nonflammable.

ACID CLEANER – SRU

- Maintains pH within the appropriate range throughout the cleaning process, even at low dosage.
- Reduces membrane differential pressure (ΔP) while maintaining the treatment flow rate.
- Does not promote foam formation.
- Nonflammable.