

OILFIELD PRODUCTS

Storage compounds for threaded pipe sections



RUST GUARD

DURABLE WAX BASED STORAGE COMPOUND

RUST GUARD is the only storage compound for drilling and OCTG pipe connections that does not have to be removed before thread compound is applied. It comes as a liquid containing rust & oxidation inhibitors and surfactants blended into a calcium soap made flowable by solvent. Once brushed or sprayed on, the solvent evaporates leaving a thin hard film that does not get squeezed out by differential expansion between pipe threads and thread protectors during temperature changes. The area of coverage is made clearly visible by a blue/green dye.

RUST GUARD provides long term protection against corrosion even in the most severe climates. Salt Spray Test ASTM B-117 showed no rust or corrosion after 500 hours in a 20% salt solution.

RUST GUARD can also be used as a storage and transportation compound for most kinds of machinery and associated components.

SIZES: 400ml aerosol, 5 litre can, 25 litre can

Service Rating: -30°C to 138°C



KORR-GUARD

MAXIMUM PERFORMANCE SEMIFLUID STORAGE COMPOUND

Unlike conventional semifluid storage compounds, KORR-GUARD's rust and oxidation inhibitors are bonded to the soap structure, rather than being blended into the base oil. This means that the inhibitors do not leach out over long periods. KORR-GUARD has superior metal adhesion ability because its soap content is at least three times higher than other semifluid storage compounds. The result is a storage compound that will out-perform rivals in the harshest environments.

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SIZE: 16Kg pail

Service Rating: -40°C to 149°C

Durability Pipe Yard Field Data: No corrosion after 2 years

Approved by Shell and Grant Prideco

Equivalent/Upgrade to Kendex Storage Compound

Speciality products



JACKING SYSTEM GREASE ECF

BIODEGRADABLE OPEN GEAR & SLIDE LUBRICANT FOR JACK-UP SYSTEMS

JACKING SYSTEM GREASE ECF is a high performance environmentally friendly alternative to using a pipe dope on jacking systems. It is based on a water resistant grease that adheres well to metal, with non-metallic solids and a multi-function additive package.

It can also be used on other open gears, winches, slides, threaded fasteners and wire ropes.

HOCNF: JACKING SYSTEM GREASE ECF is registered 'Yellow' in Norway and 'E' in the UK

SIZE: 20Kg pail

Service Rating: -18°C to 288°C



ALCO-EP 73 PLUS

EXTREME SERVICE MULTIPURPOSE GREASE

ALCO-EP 73 PLUS is a highly water resistant Aluminium Complex EP grease with a polymer additive to maximise metal adhesion and water resistance. It remains unaltered at the point where standard greases have already emulsified with water.

ALCO-EP 73 PLUS was specifically developed for subsea applications and for EP Grease lubrication where water and brine wash-off are a problem. Its Rust & Oxidation and EP/AW additives are nonplating, therefore making it suitable for close tolerance applications such as roller bearings and swivel joints as well as the larger scale applications such as rig leg swivelling.

ALCO-EP 73 PLUS can also be used for lubricating phosphated "dope free" premium connections prior to makeup to prevent moisture ingress if the connection is to remain undersea for prolonged periods.

SIZES: 400g cartridge, 500g tub, 4Kg, 12.5Kg & 16Kg pails, 400ml aerosol

Service Rating: -18°C to 288°C



C-PLATE

HIGH TEMPERATURE COPPER COATING

A spray-on coating of copper flakes in a resin binder for spraying onto newly cut threads to aid in breaking them in. Particularly useful on high chrome and stainless premium connections where threads can easily be ruined by galling. C-PLATE's application can be speeded by heat curing and its performance further enhanced by burnishing the surface after curing.

SIZE: 400ml aerosol

RIGWASH LIQUID

RIGWASH LIQUID is the most effective product for heavy duty industrial services available and can be used for degreasing, pressure washing, steam cleaning, ultrasound cleaning or simply by brushing or spraying and then rinsing with water or wiping clean. Can be diluted with fresh or salt water. Contains no 1:1:1 Trichloroethane, or SARA Title III, Section 313, Part 372 listed ingredients.

SIZE: Available in 25 litre or 200 litre HDPE containers



Industrial Products



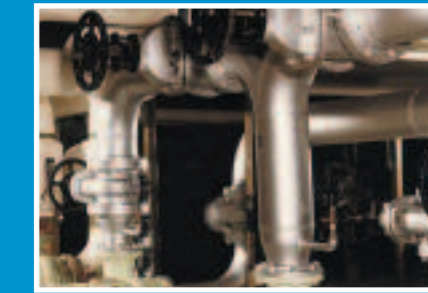
Food Grade Products



Marine Lubricants



Valve Sealants & Lubricants



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Oilfield Products

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OILFIELD PRODUCTS

For rotary shouldered connections in drilling applications



KOPR-KOTE

MAXIMUM PERFORMANCE DRILL COLLAR AND TOOL JOINT COMPOUND FOR ALL DRILLING CONDITIONS

Widely regarded as the best copper based drilling compound in the World; KOPR-KOTE not only prevents galling, but provides a friction factor that rises with contact pressure, allowing the operator to over-torque by 15 - 20% when making up drill strings for difficult drilling conditions (high angles,

adverse geology, etc), to prevent uncontrolled down-hole makeup. When following correct doping and torquing procedures, high break out torque and connection damage problems are minimised.

With KOPR-KOTE, standoff and deformation do not occur, so full hydraulic integrity is ensured on all connections and hydraulic lock does not occur on double shouldered connections.

HOCNF Registered

SIZE: 20Kg pail

Friction Factor Relative to API RP7G: 1.0 - 1.15 (1.2 at extremely high contact pressures)

Service Rating: -18°C to 199°C



KOL'R-KING

DRILL COLLAR COMPOUND WITH 60% LEAD FOR MAXIMUM GALLING PROTECTION

This compound is for where galling problems are at an extreme. The malleability of lead protects threads and shoulders from galling when pressures are extreme and shock loading is a problem.

SIZE: 25Kg pail

Friction Factor Relative to API RP7G: 1.0

Service Rating: -18°C to 138°C

BASE GREASES USED IN OUR COMPOUNDS

- As standard, for extremely wet conditions where connection surfaces are regularly soaked, we offer an Aluminium Complex base grease, which has enhanced ability to stick to wet metal.
- Some Jet-Lube compounds are manufactured with a specially enhanced Lithium base grease that gives good performance on both land-based and offshore drilling and production applications.
- For extremely cold conditions, we offer Arctic Grade, which has an extended low temperature range.
- For drilling into geothermally heated formations, we offer the Thermal grade, which has an extended high temperature performance.
- For drilling with extremely high PH muds, we offer the Extreme grade, a Calcium Sulphonate Complex base grease, which withstands strong alkalis.



JET-LUBE 21

DOUBLE DUTY TOOL JOINT COMPOUND

Formulated primarily as a tool joint compound, JET-LUBE 21 has sufficient performance to enable it to be used also as a drill collar compound in many circumstances. This double duty capability makes it suitable for doping the entire drill string length.

It has a friction factor that rises with contact pressure meaning that excessive makeup does not occur if the connection is over-torqued. In this way, high breakout torque and connection damage is avoided.

HOCNF Registered

SIZE: 20Kg pail

Friction Factor Relative to API RP7G: 1.0 - 1.15

Service Rating: -18°C to 199°C



Z-50

TOOL JOINT COMPOUND WITH 50% ZINC

Unlike Generic Zinc tool joint compounds, Jet-Lube Z-50 contains special additives to reduce zinc build-up and plating and to prevent the evolution of hydrogen gas in contact with water. Made with a shear stable water resistant base grease. Z-40 with 40% zinc and Z-60 with 60% zinc are also available for lighter and heavier duties respectively.

HOCNF Registered

SIZE: 25Kg pail

Friction Factor Relative to API RP7G: 1.0

Service Rating: -18°C to 149°C

OILFIELD PRODUCTS

For rotary shouldered connections in environmental "green" drilling applications



POW'R-KOTE

MAXIMUM PERFORMANCE METAL-FREE DRILL COLLAR AND TOOL JOINT COMPOUND FOR ALL DRILLING CONDITIONS

POW'R-KOTE has a performance and specification that is equal to KOPR-KOTE and vastly in excess of other available non-metallic compounds. Its powder and fibre combination prevents galling and provides a friction factor that rises with contact pressure,

allowing the operator to over-torque by 15 - 20% when making up drill strings for difficult drilling conditions (high angles, adverse geology, etc), to prevent uncontrolled down-hole makeup. When following correct doping and torquing procedures, high break out torque and connection damage problems virtually never occur.

HOCNF Registered

SIZE: 20Kg pail

Friction Factor Relative to API RP7G: 1.0 - 1.15 (1.2 at extremely high contact pressures)

Service Rating: -18°C to 199°C



KOV'R-KOTE

METAL-FREE TOOL JOINT COMPOUND

Formulated to emulate the frictional characteristics of Z-50, KOV'R-KOTE contains a powder and fibre combination that provides a film strength yielding an exceptional 4-ball weld point of 800kg. The result is an exceptional galling resistance, even under shock load.

On light-medium duty drilling, KOV'R-KOTE can be used on drill collars, allowing one compound to be used on the entire drill string length.

HOCNF Registered

SIZE: 20Kg pail

Friction Factor Relative to API RP7G: 1.0

Service Rating: -18°C to 199°C



NCS-30 ECF

MAXIMUM PERFORMANCE BIODEGRADABLE METAL-FREE NON-CONDUCTIVE DRILL COLLAR AND TOOL JOINT COMPOUND FOR ALL DRILLING CONDITIONS

NCS-30 ECF is our best performing and most environmentally friendly thread compound. It has a performance and specification that is similar to KOPR-KOTE but also give additional

protection to wedge thread connections. Its inert non-metallic powder, fibre and EP/AW additive combination prevents galling and provides a high friction factor that rises further with contact pressure. Connections are made up by over-torquing by 15 - 25% (higher percentage for severe duties) and in doing so, uncontrolled down-hole makeup, high break out torque and connection damage are prevented.

The Calcium Sulphonate Complex base grease is sufficiently biodegradable to meet the most stringent requirements of the HOCNF system used to regulate chemical discharge in the North Sea. The result is that NCS-30 ECF is registered to the best HOCNF categories available for drilling compounds making the completion of PON-15 paperwork simpler.

The other advantages of the Calcium Sulphonate Complex base grease are its better resistance to alkali muds and wider temperature range allowing the NCS-30 ECF to be used in most Arctic and High Temperature conditions.

HOCNF: NCS-30 ECF is registered 'Yellow' in Norway and 'E' in the UK

SIZE: 20Kg pail

Friction Factor Relative to API RP7G: 1.0 - 1.15

Service Rating: -29°C to 260°C

JET-LOK III

HIGH FRICTION FACTOR ANAEROBIC THREAD LOCKING KIT FOR EXTREMELY HIGH SEVERITY DRILLING APPLICATIONS AND WHERE DISCONNECTION THROUGH BACK-OFF MUST BE AVOIDED.

Applications such as the deployment of tools, subs and hammers often results in extremely high torques at extremely high temperatures. This often leads to undesirable down-hole makeup, even with the best pipe dopes; this can be prevented by using JET-LOK III, which cements the connections together at the angle they are made up to.

JET-LOK III can also be used to prevent disconnection when reverse direction rotation is required and on casing/tubing where exceptional sealing performance is required.

HOCNF Exempt - will not discharge to environment

SIZES: 400g Tubs

Friction Factor Relative to API RP7G: 1.4 before curing

Service Rating: -54°C to 204°C

OILFIELD PRODUCTS

For casing, tubing and line pipe connections, conforming to API bulletin 5A2 and RP 5A3



API MODIFIED

THE INDUSTRY STANDARD THREAD COMPOUND FOR ALL TYPES OF CASING, TUBING AND LINE PIPE CONNECTIONS

API MODIFIED uses lead, zinc, copper and graphite to provide the required sealing, frictional and anti-galling characteristics on all materials including hi-chrome, stainless steel and other gall prone alloys.

HOCNF Registered

SIZE: 25Kg pail

Friction Factor Relative to API 5A2/5A3: 1.0

Service Rating: -18°C to 138°C



JET-LOK II

TWO-PACK EPOXY-BASED THREAD LOCKING KIT

Use when tubular connections have to be permanently or semi-permanently locked together, for example, where they are to be left installed for a longer than usual time or to prevent disconnection when reverse direction of rotation is to be applied. JET-LOK II

is a better alternative than welding as it allows future disconnection by heating to over 290°C. JET-LOK II can also be used on rotary shouldered connections to prevent disconnection if reverse direction needs to be applied.

HOCNF Exempt - will not discharge to environment

SIZES: 8oz (227g) & 16oz (454g) kits

Friction Factor Relative to API RP 5A3: 1.0 before curing

Service Rating: to 149°C



TF-15

LOW FRICTION FACTOR COMPOUND FOR WIDE DIAMETER AND FIBREGLASS CASING AND TUBING

TF-15 contains PTFE, molybdenum disulphide, and rust & oxidation additives in a high stability, high temperature grease to provide a compound with 30% lower friction factor than API MODIFIED to provide

an effective liquid and gas tight seal at a lower make up torque. This allows wide diameter casing to be fully made up within the limitations of the equipment available and protects fibreglass connections from being damaged.

TF-15 provides the additional benefit of low abrasion, reducing connection wear rate and protecting worn connections from further deterioration.

HOCNF Registered

SIZE: 20Kg pail

Friction Factor Relative to API RP 5A3: 0.7

Service Rating: to 315°C



RUN-N-SEAL ECF

BIODEGRADABLE METAL-FREE COMPOUND FOR NON-PREMIUM (8 ROUND & BUTTRESS) TUBULAR CONNECTIONS

RUN-N-SEAL ECF contains graphite, polymers, fibres and a unique combination of non-metallic powders, resulting in a compound with consistent frictional characteristics, good resistance to galling and provides an excellent seal both to liquids and gases. RUN-N-SEAL ECF's temperature range significantly exceeds API MODIFIED.

HOCNF: RUN-N-SEAL ECF is registered 'Yellow' in Norway and 'E' in the UK

SIZE: 20Kg pail

Friction Factor Relative to API RP 5A3: 0.9

Service Rating: -18°C to 199°C



SEAL-GUARD ECF

BIODEGRADABLE METAL-FREE COMPOUND FOR PREMIUM CONNECTIONS OF ALL METAL ALLOYS

SEAL-GUARD ECF is environmentally friendly and offers anti-galling performance comparable to API MODIFIED. It achieves this by a combination of inert non-metallic powders, fibres and EP/AW additives in a special base grease that has inherent load bearing ability.

Formulated to prevent stand-off, allowing the metal-to-metal seals used in Premium connections to fully engage and work as intended.

HOCNF: SEAL-GUARD ECF is registered 'Yellow' in Norway and 'E' in the UK

SIZE: 20Kg pail

Friction Factor Relative to API RP 5A3: 1.0

Service Rating: -29°C to 260°C



ALCO-EP ECF

BIODEGRADABLE SPECIALLY FORMULATED AND DEVELOPED FOR SUBSEA OR OTHER CONDITIONS WHERE EXTREME WATER RESISTANCE IS NECESSARY.

Highly developed additive package makes ALCO-EP ECF the premier, multi-purpose grease for hostile environments. Ideal for certain RISER, WASH PIPE and other proprietary connection designs.

HOCNF: ALCO-EP ECF is registered 'Yellow' in Norway and 'E' in the UK

SIZE: 20Kg pail

Service Rating: -23°C to 232°C