
Oil & Gas

Customized Range
of Oilfield Lubricants





Efficient lubricating solutions for offshore and onshore drilling.

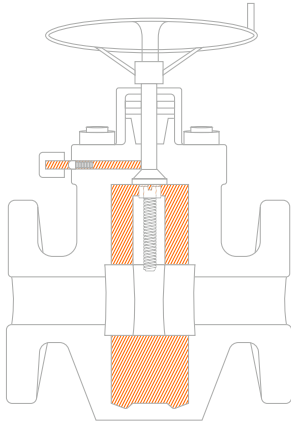
The challenges faced by today's oil and gas industry are higher than ever before. The world is demanding more energy and this has led to even more complex designs for wells, leading to excessive wear on drilling components. Whether Offshore or onshore, the drilling equipment is exposed to harsh and humid conditions where the lubricant needs to withstand extreme environments such as high pressure, wide temperature ranges and long operating hours.

Molygraph, with its long history of manufacturing speciality lubricants have designed the Oilfied production compounds with specialized extreme pressure additives to ensure the adequate EP properties & anti-wear protection for your equipments up and running.

OPERATING CONDITIONS

- | | |
|-------------------------|-------------------------|
| ↗ High pressure | ↗ Elevated temperatures |
| ↗ Hydrocarbon resistant | ↗ Acid resistance |

Featured Products



VLG 620 / VLG 620 PLUS

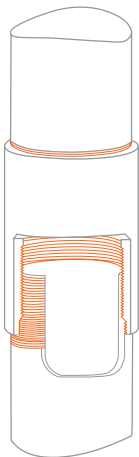
VLG 620 is a synthetic grease specially formulated as a lubricant and sealant for gate valves operating under harsh conditions.



Valve Integrity is of utmost importance in oil and gas exploration and VLG 620 is designed to make sure API 6A gate valves and the Christmas tree assembly are functioning correctly at all times. The valves often operate under very demanding conditions and extremely tight tolerances, whereas the VLG 620 series of valve lubricants prevent leakage and protect from degradation over time.

What makes VLG 620 / VLG 620 an optimum choice for drilling operators and OEMs?

- Provides superior sealing properties without hardening.
- Hydrocarbon, H₂S, CO₂ and crude oil resistant, providing maximum protection.
- Cohesive and adhesive with good water resistant properties. Non-melting and stable.
- Rust, Corrosion and oxidation prevention.
- Non-hazardous and does not contain volatile solvents.



TC API Modified

TC API Modified is high performance thread compound for casing and tubing applications.



Reduction of friction in the makeup & break up of casing and tubing, preventing galling and wear is the key purpose of TC API Modified. It meets and exceeds performance requirements in API 5 A3. The formulation has been optimized to use on casing, tubing, sealing, protecting and lubrication of tubular goods during service and storage.

Key Features:

- It contains H₂S, oxidation and corrosion inhibitors.
- Excellent Brushable over a wide temperature range.
- Does not oxidize, harden, dry out or evaporate.
- Extremely adhesive to wet and oils threads.
- Withstands extreme pressures and prevents leaks upto 10,000 (psi).



Kopal® Premium

Premium copper based thread compound with extreme pressure and anti wear additives for drill collars and tool joints.



Kopal Premium provides exceptional protection against seizing, galling, and excessive loads on drilling equipment. It exceeds API RP 7A1 standards and is formulated with copper flakes, graphite, anti-oxidants, and corrosion inhibitors for maximum performance and value in the oil and gas industry.

Key Features:

- It contains a high quality lubricating base grease with H₂S and oxidation inhibitors.
- It contains no lead or zinc.
- Great brushability over a wide temperature range.
- Anti wear and extreme pressure additives protect against galling and seizing.

Product Selector

PRODUCT TYPE	APPLICATION	FEATURES & BENEFITS	PRODUCT
Valve Lubricant	Christmas Tree Gate Valve	VLG 620 is a fully synthetic grease for lubrication and sealing of valves and provides resistance to crude oil, hydrocarbons, hexane, CO ₂ , H ₂ S, petrol, diesel, hydrochloric acid, water, chemicals at temperatures up to 220°C.	VLG 620 / VLG 620 PLUS
		Valve cleaner is specially designed to remove the hydrocarbon resistance from metal surfaces within the gate valves.	V KLEEN 620
Production Compound	Casing & Tubing	Thread compound for casing, tubing & line pipes designed for high pressures, temperatures and water resistance.	TC API MODIFIED
Drilling Compound	Drill Stem	Copper based high performance drill collar and tool joint compound with easy brushability and corrosion protection.	KOPAL® PREMIUM
		Zinc based thread compound for tool joints, drill collars and other rotary shouldered connections for leak proof sealant action even in extreme pressures.	TCZ 50
		Non-metallic thread compound for medium to heavy duty drilling for wide range of temperatures and conditions with good resistance to water washout.	KOPAL® KR
		Copper based high performance drill collar and tool joint compound with easy brushability and corrosion protection, an economical solution.	KOPAL® SUPER
		Heavy duty water resistant and temperature-resistant drill rod grease.	DR GREASE HD 1
		Environment friendly high performance copper based thread compound with EP additives that provide protection against galling and seizing and help in easy breakout.	THREAD COMPOUND EF
Wire Line Lubricant	Wireline Operation	High-temperature wireline grease seal with high viscosity index to retain the viscosity at wide temperatures.	WIREFLO 350
Wire Rope Greases	Wire Rope	High performance wire rope, chain & cable grease.	CRG 100 GRADE 1
		Premium grade penetrating wire rope fluid lubricant with excellent dewatering property resisting grease water-washout to protect against rust and corrosion.	CRG 100 M
Storage Compound	Threaded Pipes	Long term storage compound designed to protect all types of threaded surfaces with excellent frictional characteristics help to tighten the connections at desired stress levels.	SC 2000
Anti Seize	Threaded Connections / Nuts & Bolts	A premium grade high temperature antiseize compound with solid lubricants for better load carrying properties.	KOPAL® 1000
		Copper based high performance antiseize compound for easy dismantling & assembling during installation & maintenance.	KOPAL®
Cleaners / Degreasers	Utility & General Maintenance	Water based eco friendly , non toxic & biodegradable heavy duty cleaner & degreaser.	ECOKLEEN PLUS
		High performance solvent based cleaner cum degreaser.	U KLEEN L 65



Product Specifications

GREASES

PRODUCT	BASE OIL VISCOSITY @ 40°C (cSt)	NLGI GRADE	DROPPING POINT (°C)	OPERATING TEMPERATURE (°C)
VLG 620	NA	#2	NA	-20 / +220
VLG 620 PLUS	NA	#2	NA	-20 / +220
TC API MODIFIED	100	#1	+180	-18 / +177
KOPAL® PREMIUM	460	#2 / 1	+300	-18 / +180
TCZ 50	100	#1 / 2	+180	-12 / +177
KOPAL® KR	120	#1	+170	-18 / +230
KOPAL® SUPER	460	#1	+190	-18 / +180
THREAD COMPOUND EF	100	#1	+190	-18 / +230
CRG 100 GRADE 1	460	#1	+300	-10 / +140
CRG 100 M	460	#00	NA	-10 / +180
SC 2000	460	#0.5	+300	-20 / +200
KOPAL® 1000	NA	#2 / 1	+180	-40 / +1100
KOPAL®	120	#2 / 1	+170	-30 / +1100
AS 60	NA	#3 / 2	NA	-30 / +450

OIL

PRODUCT	APPEARANCE	DENSITY @ 29.5°C (gms / cc)	COPPER STRIP CORROSION TEST (Rating)	CORROSION PREVENTIVE TEST	FLASH POINT (MIN.) (°C)
WIREFLO 350	Tacky Viscous Liquid / Honey Like	0.80 - 0.90	1b	Pass	200

Accelerating industrial performances across the world

Designed by empirici designs



Efficient lubrication solutions to drive industries forward

Molygraph is India's leading engineered lubricants company. For over 32 years we have mastered the art of making high quality speciality lubricants for various industries & applications. At the core of each of our products lies our strong emphasis on Research & Development and a deep understanding of the client's expectations, which helps us deliver optimal solutions.

The consultative selling approach lays emphasis on value creation for our clients & has led Molygraph to be a front runner in the speciality Lubricants market in India as well as developing a global footprint with a presence in over 25 countries around the world.

BUSINESS VERTICALS

- Animal Feed
- Automotive Components & Manufacturing
- Cement
- Food
- Forging
- Metal Cutting & Forming
- Mining
- MRO
- Oil & Gas
- Pharmaceutical
- Plastic Moulding
- Pulp & Paper
- Punching & Stamping
- Steel
- Sugar
- Textile
- Wind Power

PRODUCT LINE

- Aerosol Sprays
- Cleaners & Degreasers
- Dispersions
- Lubricating Greases & Pastes
- Lubricating Oils
- Metal Forming Fluids
- Rust Preventives
- Solid Lubricants
- Thread Dope Compounds

PRODUCT APPLICATIONS

- Bearings
- Chain & Wire Ropes
- Conveyor Chains
- Forging & Extrusion
- Gears
- Metal Cutting & Grinding
- Metal Punching & Stamping
- Nuts, Bolts & Threads
- Sheet Metal Drawing
- Valves

