

A Selection Guide

OPTIMOL

MOLUB-ALLOY

BRAY

TRIBOL

Specialty Industrial Lubricants



Bearing and Lubricating Greases

	Molub-Alloy BRB 572	Optimol Longtime PD 2	Optimol Olista LT 2	Optitemp LG 2
PRODUCT	Made from a select base oil and a stable lithium thickener having outstanding shear stability. It has chemical EP additives and lubricating solids to enhance anti wear performance and extends the life of antifriction bearings.	Solid free grease with Microflux Trans® additive combination for long term lubrication of bearings under the most difficult mechanical conditions including vibrations.	Solid-free especially adherent grease with Microflux Trans® additive. Suitable for high loads, vibrations, shock loads at high or low speeds.	Lithium grease with synthetic oil, suit low temperatures, compatible with polyacetal, polyamide, NBR, CR or natural rubber. Meets VW specification TL-VW77A for low temperature greases, BMW and DBL 6827.40, Brose Norm 002-563501-104 group 3.
APPLICATIONS	All types of ball bearings, roller bearings including precision and also journal bearings in mills, heavy industry and rail car axles. Acts as barrier to dust penetration in motor bearings and inaccessible bearings in cement mills.	Long term or life time lubrication of all types of bearings subjected to shock load and vibrations i.e. crushers, rolling bearings of geared motors. Resistant to cold & hot water and suitable for very high speeds.	Maintenance free long term lubrication of bearings under extreme operating conditions i.e. moisture, dust, vibrations, shock loads and extremely high loads. Also suitable for gear wheels and worm gears.	Anti friction bearings, clutch bearings and wheel hubs for long term and life time lubrication. Sliding surfaces of sun roofs, door locks, very high speed bearings up to DN value of 1,000,000.
BENEFITS	Longer service life results from the "running-in" effect of the lubricating solids. Excellent sealing from dust, water and water vapour.	Can be easily pumped and is a shear stable grease operating for extended periods under extra ordinary high loads. Costs saving through optimum wear protection which extends the life of capital equipment.	Excellent adhesion and load carrying capability. Water repellent with good sealing properties, ageing resistance and shear stability with excellent rust protection capability.	Does not affect top coat paints used in automobile construction. Extremely low oil separation and trouble free start up at low temperatures. Outstanding water resistance.
PHYSICAL-CHEMICAL DATA	Service temp -25 to +130°C Colour greyish black Base lithium soap mineral oil Base oil viscosity @ 40°C 143 cSt NLGI consistency 2	Service temp -35 to +140°C Colour brown Base lithium soap mineral oil Base oil viscosity @ 40°C 95 cSt NLGI consistency 2	Service temp -30 to +130 °C Colour reddish brown Base lithium soap mineral Oil Base oil viscosity@ 40°C 400 cSt NLGI consistency 2	Service temp -50 to +120°C Colour light white Base lithium soap PAO oil Base oil viscosity @ 40°C 48 cSt NLGI consistency 2
PERFORMANCE DATA	Timken EP test OK load 160 N Four ball test Load wear Index 630 N Weld load 2500 N Oxidation stability D942 @100 hr pressure drop 0.2 bar Roller bearing dynamic performance SKF R2F test Pass SKF emcore rust test DIN 51802 0	DN value 400,000 Water resistance @ 90°C 1 Flow pressure @-35°C 1220 mbar SRV test run mode 5ae 300 N/50°C ball/surface/coefficient of friction 0.070 ball/scar dia 0.55 mm profile depth Pt 1.0 µm	DN value 200,000 Four ball OK load 3000 N DIN 51350 T.4 Water wash out loss ASTM 1264 % loss wt. 1 Corrosion protection DIN 51802 SKF emcor rust test 0 Copper corrosion protection DIN 51811 at 100°C 0	DN value 1,000,000 Corrosion protection SKF emcor rust test DIN 51802 0/ 1 Water resistance @90°C 15 minutes 0 (no change) Oil separation 48 hrs, 90°C nil
PACK SIZE	450 gm cartridge 16.8kg pail 190.5kg drum	450 gm cartridge 5kg can 20kg pail 182kg drum	450 gm cartridge (LT 2 only) 5kg can 20kg pail 182kg drum	1 kg can 20 kg pail

Bearing and Lubricating Greases

	Molub-Alloy 1000	Molub Alloy 823FM-2	Opti Obeen UF 2	Opti Inertox Heavy
PRODUCT	Synthetic oil based grease with organic thickener offering physical stability in prolonged service in the temperature range of 177°C to 288°C.	Food and beverage machinery general purpose grease. USDA H1 rated with white paraffinic oil and other ingredients complying with FDA and cosmetic act regulation 178.3570 and 178.3620.	Transparent, physiologically safe with components complying with German Pharmacopoeia DAB 8 and USDA H1 requirements.	Grease with PFPE base oil and PTFE Thickener. Chemically and thermally stable, non-flammable. Inertox Heavy is USDA H 2 rated and suitable for applications in food and beverage industries.
APPLICATIONS	High temperature bearings especially at slow to moderate speeds with heavy and shock loads. Overhead sealed trolley wheel conveyor bearings in paint drying ovens and cement rotary kiln gas sealing lubricant. For very long lubrication intervals the use of Opti Inertox in the paint drying ovens is recommended.	Sleeve and anti friction bearings in over head conveyors that may come in contact with food. Can closures, filling equipment, ovens, grease lubricated chains and gears.	Food, beverage, pharmaceutical and cosmetic industry machines. Filling machines in yogurt, instant food, cheese processing, packaging stations, card board folding machines, bearings, conveyors, bottle washing or closing machines, household appliances, toys.	Rolling and sliding bearings, seals and O-rings, subjected to extremely oxidative environments. Film stretching machines, stentor frames, oven carriages in ceramic industry. Suitable for oxygen fittings.
BENEFITS	Very low volatiles, minimum residue and excellent film strength at high temperatures. It withstands intermittent exposure to temperatures up to 343°C.	Excellent film strength, with good adhesion and water wash out resistance. Drip free to reduce any risk of contamination in the food, cosmetics and pharmaceutical industries.	Suitable for applications where contact between lubricant and food cannot be completely excluded. Odourless, tasteless and colourless. Resistant to hot and cold water.	Special grease completely inert, resistant to inorganic and organic acids, alkaline solutions, solvents i.e. naphtha, benzene, toluene, tri chloro ethylene, perchloroethylene, methyl chloride, alcohols, gamma rays.
PHYSICAL-CHEMICAL DATA	Service temp. continuous up to +288°C (Short term 343°C) Colour grey Base organic thickener synthetic oil Base oil viscosity @ 40°C 540 cSt NLGI consistency 1	Service temp. -10 to +150°C Colour off white Base aluminium complex white oil Base oil viscosity @ 40°C 192 cSt NLGI consistency 2	Service temp. -15 to +140°C Colour amber / transparent Base aluminium complex white oil NLGI consistency 2	Service temp. -35 to +260°C Colour white Base perfluorinated polyether PTFE Base oil viscosity @ 40°C 148.5 cSt NLGI consistency 2 Sp. gravity @15.5°C 1.97
PERFORMANCE DATA	Four ball OK Load 2500 N Oxidation stability D942 pressure drop /1000 hrs 0.28 bar Oil separation ASTM 1742 0% Four ball wear test scar 40kg, 75°C, 1800 rpm, 1 hr 0.42 mm	Oxidation stability D942 pressure drop /100 hrs 0.36 bar Corrosion protection SKF emcor rust test DIN 51802 0 Four ball wear test scar ASTM D 2266 0.61 mm	DN Value 100,000 Corrosion protection SKF emcor rust test DIN 51802 0/ 1 Water resistance @90°C 0 (no change)	DN Value 100,000 Corrosion protection SKF emcor rust test DIN 51802 0 Water resistance @90°C 0 (no change)
PACK SIZE	450 gm cartridge 15.9 kg pail	450 gm cartridge 20 Kg pail	450 gm cartridge (UF 2 only) 5kg can 20 kg pail	1 kg can

Chain Lubricants

Assembly Pastes

	Optimol Viscogen KL Series	Optimol F & D Fluid Spray	Optimoly Paste PL	Optimoly Paste White T
PRODUCT	Synthetic lubricant with excellent thermal stability especially designed for chain lubrication. It has excellent penetrating properties for the inside of the links and pins with adhesion and load carrying capability. USDA H2 rated Good compatibility with oil resistant seals and paints.	Based on clear mineral oil, USDA H 1 and AQIS approved. Its purity complies with German Pharmacopoeia DAB 10.	Black assembly paste with molybdenum disulphide. Extremely high load carrying capability and low coefficient of friction.	White assembly paste with wide range of uses. Contains a combination of light coloured solid lubricants in mineral oil. USDA-H2, AQIS and MAF approved.
APPLICATIONS	For all types of chains operating under high temperatures and stresses. Also suitable for lubrication of roller and plain bearings. KL 23 is designed for stentor frame chains.	It is tasteless and odourless. Suitable for food, beverage and pharmaceutical industry packaging machines, filling machines, closing machines. Also used as a mould release lubricant for plastic food containers.	Screw connections, press and press fits at high temperatures. Running-in of plain and sliding bearings, drive trains in the automotive industry. Base lubrication of slides, guides and joints. Suitable for tool and work piece separation during forging.	Universal extreme pressure assembly paste with anti fretting properties and light lubrication where cleanliness is critical. Avoids stick slip and squeaking noise. Prevents ink hardening on side plates of printing machines.
BENEFITS	Miscible with mineral oil, non- toxic, odourless, good penetrating properties, chemically stable. Minimal residues even at temperatures above 220°C and extremely low evaporation loss.	Physiologically safe with a high flash point.	Suitable for assembly work and provides emergency protection during running in.	Avoids fretting corrosion and wear, prevents stick slip, squeaking and seizure. Provides clean lubrication in food and drink processing machinery and precision equipment. Resistant to hot & cold water.
PHYSICAL-CHEMICAL DATA	Service temp. up to +250°C Colour green Base oil synthetic Base oil viscosity cSt @ 40°C 100°C KL 23 249 23 KL 300 4032 210	Service temp. -10 to +80°C Colour water white transparent Base oil mineral oil Base oil viscosity @ 40°C 40cSt	Service temp. -30 to +450°C + 600°C (in reduced air) Colour grey black Base grease like carrier MoS ₂ , and other solids mineral oil Base oil viscosity @ 40°C 390 cSt NLGI consistency 2	Service temp. -30 to +250°C Colour white Base white solids mineral oil Base oil viscosity @ 40°C 95 cSt NLGI consistency 1
PERFORMANCE DATA	Ash content % nil Steel corrosion protection 0/1 Pour point °C KL 23 -45 KL 300 -18	Pour point - 15°C Flash point °C >176	Erichsen screw test (total friction) DIN 946 0.07	Water resistance @90°C DIN 42807 T.1 0 Erichsen screw test (total friction) DIN 946 0.77
PACK SIZE	KL23 300gm aerosol KL300 350gm aerosol 4.5 kg can 18 kg pail 180 kg drum	400ml aerosol	400ml aerosol 2.5kg can	400ml aerosol 5kg can

Dry Lubricant

Gear Lubricants

Penetrating Oil

	Optimol TF Spray	Molub-Alloy 936 SF	Molub-Alloy MOGA	Pentrat WDP
PRODUCT	100% Dry film anti friction spray based on micro size high purity MoS ₂ powder with high load carrying capability. Excellent adhesion to smooth metal surfaces and resistant to temperature extremes, vacuum and radiation. Meets Specs NATO S 740, MIL -M-7866B, DEF 2304, France AIR 4223 and Germany VTL 6810-015.	Open gear compound formulated from a solvent free blend of highly refined paraffinic base oils with solid lubricants, anti wear and EP additives.	Open gear grease in aerosol form comprising high viscosity oil, synergistic EP additives and solid lubricants.	5 in 1 light viscosity oil with good penetrating properties, water displacing, rust dissolving and corrosion protection. For light duty lubricating applications.
APPLICATIONS	Base lubrication of slow speed sliding surfaces under high loads, toothed racks, guides, ejector pins, door and jack screws. Lubrication of adjusting spindles in wood, paper, card board and glass industries. Dry lubrication of spindles subjected to high temperatures.	All types of open gears, rails and rollers, racks, pinions and other slides on shovels and draglines which operate under extreme pressure at very slow speeds. Suitable for slow speed heavily loaded bearings.	All types of open gears, rails, rollers, racks, pinions and other slides on shovels and draglines which operate under extreme pressure at very slow speeds. Suitable for slow speed heavily loaded bearings.	Disassembly of seized screws, nuts, rolling bearings, short term rust protection of machine elements, wire ropes, tools. Chain lubricant in work shops.
BENEFITS	Air dries to a semi permanent coating in 15 minutes. Once cured it does not attract dust. Very low friction suitable for long term lubrication of slow speed sliding surfaces.	The compound flows freely yet resists "squeeze out" and clings tenaciously to gears. Can be applied either manually or by heavy duty automatic systems.	Ozone safe a non-melting and non dripping grease in aerosol form with very good resistance to both hot and cold water.	Eliminates squeaking lubricates locks, hinges and joints. Suitable for automotive and marine ignition systems, displaces moisture.
PHYSICAL-CHEMICAL DATA	Service temp. -180 to +450°C Colour grey-black Density gm/cm ³ 4.8 Drying time 5 minutes Cure time 15 minutes	Colour black Base mineral oil solid lubricants Base oil viscosity @40°C 1280 cSt @100°C 53cSt NLGI consistency 0 Sp gravity @15.6°C 0.998	Colour black Base ashless inorganic mineral Oil Base oil viscosity @40°C 285 cSt NLGI consistency 1 1/2	Colour yellow-transparent Base mineral oil Base oil viscosity @40°C 4.2 cSt
PERFORMANCE DATA	Solid lubricant MoS ₂ Purity % >98.8% Particle size 0.6 -0.8 µm	Four ball EP test ASTM D 2596: Weld load 8000 N Load wear Index 900 N Timken OK load 250 N ASTM D2509 Pumpability lincoln ventometer @-1.1°C 800 psi Graphite abrasion test (modified) wt. mg 0.5	Four ball EP test ASTM D 2596: Weld load 5000 N Water wash out loss ASTM D 1264 @175°C <5% Rust prevention properties ASTM D 1743 Pass Oxidation stability ASTM D942: pressure drop@100°C 2 psi pressure drop @300°C 10 psi	Density @15°C 0.822 Pour point °C -33 Flash point °C 65
PACK SIZE	400 ml aerosol	280gm caulking cartridge 450gm cartridge 20 kg pail	400gm aerosol	300 gm aerosol 5Kg can 20 Kg pail

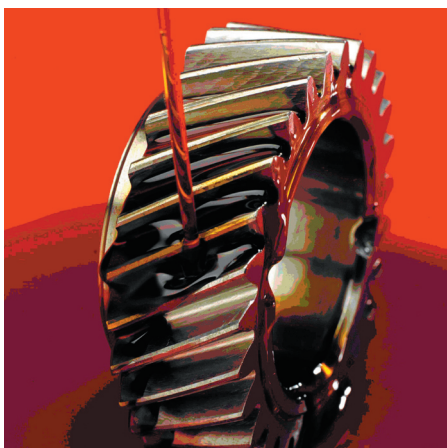
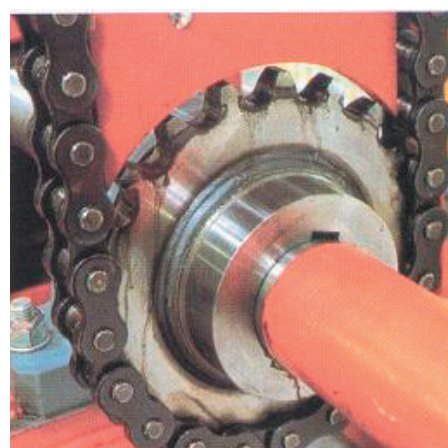
CASTROL SPECIALTY INDUSTRIAL LUBRICANTS RANGE

Specialty Industrial Lubricants from Castrol (OPTIMOL, MOLUB-ALLOY, BRAY and TRIBOL brands) provide engineering solutions including lubrication of:

- Bearings
- Chains
- Gears
- Assembly
- 100% dry lubricated parts in dusty environments
- Hydraulic systems
- Transmissions

This extensive range of Specialty Industrial Lubricants from a world leader is now released with technical support for the Australian industries:

- Food
- Mining
- Mineral processing
- Power generation
- Aviation
- Chemical
- Automotive
- Plastic



Contact DC Products for specialty lubricants with approvals for the food industry including FDA, USDA or AQIS ratings. For Military, NATO or DEF certified products for use in aviation, RAAF, Army, Navy and other defence applications consult our Technical Specialists.

• **Cost saving**

• **Extension of equipment life**

• **Extended lubrication intervals**

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