



POWERMXX LUBE INDIA

Company Profile

We "**Powermaxx Lube India**" introduce ourselves as leading Manufacturers of Automotive, Industrial, Sugar Industry, Marine, Construction, Mining, Quarry, Lubricants & Greases and also Manufacturing of Specialty Lubricants & Greases Products.

Powermaxx has the complete portfolio for premium Lubricants and Greases covering all major **Industrial, Sugar Industry, Automotive, Marine, Construction, Mining & Quarry applications.**

The Products of **Powermaxx Lube India** are being manufactured under supervision of High Qualified and Professional trained Research and Development team Experts, Our professional technical team has designed every lubricant to be more economical for consumer care and energy for the engines and equipments.

Available Oil Packing Size: **210Ltrs and 26Ltrs.**

Available Grease Packing Size: **180Kg and 18Kg.**

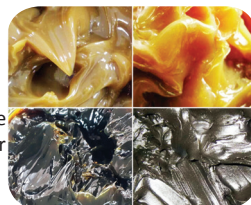


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CALCIUM, GRAPHITE & SODIUM GREASES

CALCIUM / GEL CALCIUM / CHASSIS GREASE /WHEEL BEARING GREASE

DESCRIPTION : CALCIUM/GEL CALCIUM/CHASSIS GREASE WHEEL BEARING GREASE is manufactured from selected quality base oils, Calcium soap, Sodium soap and additives to provide excellent water resistance properties and good corrosion and rest protection. **APPLICATION :** Recommended temperature range of this product is 60°C in continuous service and 120°C for short exposure. Water environments such as slips ways and water pump bearings, Nipples, spring leaves, chain Drives, Open and Semi-open Gear Systems.



NLGI	CALCIUM-3	GEL CALCIUM-3	CHASSIS-1	WB- GREASE-3
Soap Type	Calcium	Gel Calcium	Calcium	Sodium
Appearance	Light Brown	Light Brown	Dark Green	Brownish Black
Drop Point	98	102	90-110	178
Operating Range	-10 to 80	-10 to 90	-10-90	10-120

CALCIUM & ALUMINUM GRAPHITE GREASE

DESCRIPTION : Calcium & Aluminum Graphite Greases is manufactured from premium quality calcium soap or aluminum Soap greases fortified with fine with micronized graphite powdered to give excellent lubrication in sliding friction conditions and to with stand high load. Powermaxx Calcium & Aluminum Graphite Grease - 0 meets the specification of IS: 408-1981, RA -1993 & 2004 **APPLICATION :** Ball/ Roller bearings as well as flanges in Railways network & Railway Track Fasteners of Indian Railways, hydraulic rams, plungers, slides, elevator cables, leaf springs, life guides, paper mill equipment such as digesters, chip screen, chippers, conveyors etc.



NLGI	0	1	2	0
THICKENER	Calcium (Graphite)			Aluminum (Graphite)
COLOUR	Grey/Black			
DROP POINT	95	95	95	95
VISCOCITY @ 40°C	160	160	160	220
Operating temp	-12 to +80	-12 to +80	-12 to +80	-12 to +80

LITHIUM GREASES

AP3, AP2, MP3 LONG LIFE GREASE (LITHIUM BASED)

DESCRIPTION: It is premium **quality lithium soap** based multifunctional grease processed from premium quality base oil and chemicals. It contains high water resistance properties and special chemical additives which enhanced oxidation resistance and special type of polymer to withstand oil separation.

APPLICATION: Passenger cars, vans, trucks, farm tractors and general industrial equipment, machine tools and home appliances, automotive chassis fittings and bearings and for industrial lubrication where service conditions are moderate.



SPECIFICATION:	AP3 Grease	AP2 Grease	MP3 LONG LIFE
NLGI Grade	3	2	3
Soap type	Lithium		
Colour	Light Brown	Light Brown	Light Brown /Red
Viscosity @40°C	120	120	160
Worked penetration	220-250	265-295	220-250
Drop point	180	180	220
Operating Temperature	-3/140	-3/140	-20/160

EP/EPL GREASE (EXTREME PRESSURE LITHIUM BASED)

DESCRIPTION: EP/ EPL GREASE is premium grease designed for constructions, automotive and industrial applications. They also contain Lithium and antioxidants, anti corrosion and EP additives together provides protection against rust and oxidation grease for plain and anti-friction bearings. **APPLICATION:** Stone jaw crusher & VSI (Quarry), Construction Equipments (Trailers, trucks, buses, tankers, heavy transport vehicle, passenger cars, Gear cases, chain cases, wire ropes).



NLGI	000	00	0	1	2	3
Thickener	LITHIUM					
Color, Visual	Amber/Dark Brown					
Viscosity @ 40	320	220	220	220	220	220
Operating Range	-10 to 160	-10 to 160	-10 to 160	-10 to 160	-10 to 160	-10 to 160
Weld Load	250	250	250	250	250	250
Dropping Point	215	205	190	190	200	200

PD GREASE (LITHIUM + COMPLEX SOAP) (EQUIVALENT OF CASTROL TRIBOL PD-2 & PD-00)

DESCRIPTION: PD GREASE is high performance lithium with Complex Soap based grease with incorporating high dosage of Micro flux Trans (MFT) a improvement additive system. Due to eutectic flow caused by the special additive package gives extremely smooth surfaces in minimum wear and very low co-efficient of friction **APPLICATION:** Applications for Steel, VSI & Jaws in Stone Crusher (Quarry), Cement, mining, paper & chemical Industry. Passenger cars, buses, farm equipment, off highway and on-highway commercial vehicles including New Generation Multi-Axle trucks for long haul service and etc.



NLGI GRADE	000	00	0	1	2
Colour	Yellowish				
Thickener	Lithium + Complex Soap				
Solid Lubricants	Micro flux Trans (MFT)				
Drop Point	175	180	180	220	220
Operating Range	-20 to 160	-20 to 160	-20 to 160	-20 to 160	-20 to 160
Viscosity at 40	160	160	160	135	135
Weld Load	315	315	315	315	315

GEL GREASE (SEMI-LITHIUM COMPLEX)

DESCRIPTION: GEL GREASE is a high quality, lubricating grease developed primarily for the automotive and industrial market using an optimized combination of superior base oils, special Semi-Lithium Complex thickener technology and performance additives. **APPLICATION:** Passenger cars, buses, farm equipment, off highway and on-highway commercial vehicles including New Generation Multi-Axle trucks for long haul service and etc.



NLGI GRADE	2.5
Thickener Type	Semi-Lithium Complex
Color, Visual	Yellow / Red
Viscosity @ 40°C	160
4-Ball Weld Load	250
Dropping Point	230

MOLEX EP GREASE (EP PROPERTIES, LITHIUM, MOLY)

DESCRIPTION: MOLEX EP GREASE is smooth & tacky with high quality mineral oil & lithium soap based grease incorporating multifunctional, EP (extreme pressure) additives, finely dispersed with graphite and pure molybdenum disulphide (MoS₂), assures long re-greasing intervals when this kind of operation is impossible or must be delayed. **APPLICATION:** MOLEX EP-0 and MOLEX EP-1 is suitable for centralized lubrication and other applications where low temperature performance is required. MOLEX EP-2 is recommended for multipurpose applications in antifriction and plain bearings, stone jaw crusher, bushings and pins under normal operating conditions. MOLEX EP-00 and MOLEX EP-000 is semi-fluid grease designed for Wire Ropes & Enclosed Gears and Bearings lubrication in many other Industrial and Constructions Applications : Stone Jaw Crusher, Gear Cases, Chain Cases, Underwater Dredging buckets (cutting heads), Rigs Jacking legs on Offshore Drilling and Marine Wire Ropes because of leakage due to worn or missing seals.



NLGI	MOLEX-000	MOLEX-00	MOLEX-0	MOLEX-1	MOLEX-2
COLOUR	DARK GREY				
Thickener	Lithium+Mos2				
Viscosity at 40°C	160	160	160	160	160
Drop Point	+200	+200	+190	+190	+190
Weld Load	315	315	315	315	315
Temperature Range	-20 to 140	-20 to 140	-20 to 140	-20 to 140	-20 to 140

SPECIAL HEAVY DUTY EP CRUSHER GREASE (HEAVY DUTY EP PROPERTIES LITHIUM)

DESCRIPTION: SPECIAL HEAVY DUTY EP CRUSHER GREASE is smooth & tacky tailor-made modified lithium soap grease. It is specially developed with special high quality mineral base oil & lithium soap based grease incorporating multifunctional, EP (extreme pressure) additives for stone crusher industry. These greases possess excellent Shear stability, High load carrying capacity, and good oxidation stability, resistance to water washout & corrosion protection and also protect bearings under shock load and vibratory conditions. These greases are recommended for pulverizes crushers and various other crushing equipment. **APPLICATION:** Recommended for applications where continuous high temperatures or intermittent very high temperatures are experienced. The maximum usable temperature for Hi-Temp Grease for extended service is 140°C to 180°C. Applications for Jaws in Stone Crusher (Quarry), pulverizes crushers and various other crushing equipment used in ambient temperature applications such as roll neck bearings.



NLGI	2.5
Appearance	Brownish
Thickener	Heavy Modified Lithium
Viscosity at 40°C	180 to 220
Drop Point	+220
4 Ball Weld Load	+315
Temperature Range	-20 to 180

HIGH TEMPERATURE & SPECIALITY GREASES

M OLY 460, 1000, 1400 HTXX-2 (Equivalent of Shell Gadus S2 U1000D 2) & MOLY 777 LCX-2 460, MOLY 1000 LCX-2 (Equivalent of Castrol Molub-777-ES & Shell Gadus S3 460D 2) (MOLY, BENTONITE CLAY & LITHIUM COMPLEX)

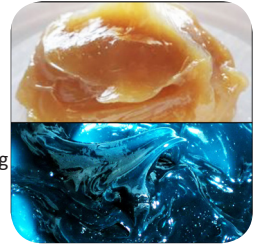
DESCRIPTION: MOLY 460, 1000, 1400 HTXX-2 & MOLY 777 LCX-2, MOLY 1000 HT LCX-2 GREASE contains antioxidants, anti corrosion and EP additives together MOS2 (MOLY) & Graphite [Nano particles] containing as per required thickener grease lithium- complex or bentonite clay designed with high viscosity mineral oils to withstand water for automotive and industrial applications **APPLICATION:** Versatile applications for Steel, Sugar mills bearings, Cement mill journals, chemical plants and paper mills where grease is exposed to very wet conditions, mining and process plants, where in stone crushers (VSI), Breakers, Pin bush, Screens and kilns are operated at high temperatures.



NLGI GRADE	MOLY 460 HTXX-2	MOLY 1000 HTXX-2	MOLY 1400 HTXX-2	MOLY 777 LCX- 2 460	MOLY 1000 HT LCX-2
Colour	DARK GREY				
Thickener Type	BENTONITE CLAY			LITHIUM -COMPLEX	
Solid Lubricants	5% MoS2 & Graphite				
Viscosity @ 40	460	1000	1400	460	1000
Drop Point	+280	+280	+320	+280	+280
Operating Temp	-20° C to 220 °C	-20° C to 250 °C	-20° C to 280 °C	-20° C to 220 °C	-20° C to 220° C
Weld Load, Kg	500	800	+800	800	800

PD LCX-222, PD LCX-2 & HT LCX-2 460 GREASE (LITHIUM COMPLEX)

DESCRIPTION: PD LCX-222, PD LCX-2 & HT LCX-2 460 GREASE is formulated and contains antioxidants, anti corrosion, rust inhibitors and EP additives, lithium-complex thickener grease designed with high viscosity mineral oils to withstand water provide a heavier Oil film for applications with excessive loading at slow speed & high temperature. **APPLICATION:** Versatile applications used in General Manufacturing, steel, rotary kilns in sponge iron units, Fleet, Power Generation, Metals, Mining, Construction, Stone crusher.



NLGI	HT LCX-2 460	PD LCX-222	PD LCX-2
Colour	Golden Yellowish	Dark Blue/Golden Brown	Dark Blue/Golden Brown
Thickener	Lithium- Complex		
Drop Point	+280	260 to 280	260 to 280
Operating Range	-20 to 180	-20 to 180	-20 to 180
Viscosity at 40 cSt	460	220	220
Weld Load	620 - 800	350	315

WR 460 - 000, 00 WIREROPE GREASE (CALCIUM SULPHONATE COMPLEX, MOLY, GRAPHITE)

DESCRIPTION: WR 460-00, 000 is tacky and high quality, Calcium Sulfonate Complex based grease incorporating multifunctional, extreme pressure (EP) additives, finely dispersed with graphite and pure molybdenum disulphide (MoS₂), and assures long re-greasing intervals. It is semi-fluid grease for wire rope lubrication designed to meet the arduous lubricant and corrosion prevention requirements of wire ropes working under all conditions. speed & high temperature.

APPLICATION: Construction, mining and industrial equipment, Dockside and ship crane ropes, and Drag lines, Rigs (back-up legs), Jacking legs on offshore drilling rigs, Underwater Dredging buckets (cutting heads), Marine wire ropes, Hoists, mobile cranes, Forklift rails, Slipper drives (steel mils), Dipper sticks on excavating shovels.

DIRECTIONS: Apply sparingly, (1kg is sufficient to lubricate 50m of 25mm dia rope). When the rope is in use, the capillary action of the lubricant will ensure full penetration to the core. Use straight from the container, even in cold weather. For best results, Wire Rope Lubricant should be applied to clean ropes to ensure complete penetration. Should it not be possible to clean the ropes of previous lubricant, and then apply Wire Rope Lubricant on top to soften it, work the rope for one week, then make a further application.



NLGI	WR 460 - 00	WR 460- 000
Appearance	BLACK BROWN	
Thickener	Cal Sulfonate-Complex	
Viscosity at 40 °C	415	460
Dropping Point, °C	+280	+280
4 Ball Weld Load	350 to 400	350 to 400
Temperature Range	-20 to 180	-20 to 180

CS HTXX 400 & 800 GREASE (CALCIUM SULPHONATE COMPLEX)

DESCRIPTION: CS HTXX 400 & 800 greases is formulated with advanced calcium sulfonate thickener technology for better high load carrying, extreme temperature properties along with compatible friction modifier ,EP additive, rust and oxidation inhibitors are specifically designed for steel and paper mill.

APPLICATION: CS HTXX 400 & 800 greases are recommended for heavily loaded and water saturated applications in the steel, paper mill, mining, construction and quarry environments, Continuous casters, Hot rolling work roll bearings, Roll necks, Couch, press and breast rolls, Wood pellet mill roll bearing, Quarry (stone crusher) VSI bearings and jaw crushers.

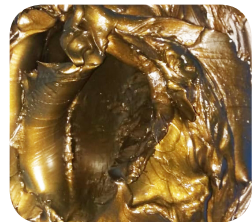


PROPERTIES	CS HTXX 400	CS HTXX 800
NLGI grade	2	2
Thickener Type	Calcium Sulfonate Complex	
Colour	Brown	Brown
Dropping Point, C	+320	+320
Viscosity cSt @ 40 C	220	460
4-Ball Weld load	+400	+800
Operating Temperature	-20 to 250	-20 to 280

COPAZ-B2 COPPER ANTI-SEIZE GREASE

(COPPER MICRONISED, GRAPHITE, MOLY, BENTONITE CLAY)

DESCRIPTION: COPAZ-B2 ANTI-SEIZE Compound is a copper based anti-seize paste reinforced with graphite and molybdenum disulphide to further enhance its performance particularly in applications where conventional copper based anti-seize products may fail to perform. **APPLICATION:** Used successfully for cylinder head bolts, nozzle head screws of plastic, Furnaces, Exhaust system, Dockside and Oil rig applications.

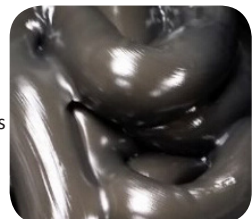


NLGI	2
Colour	Dark coppery colored paste
Viscosity @ 40°C	1000 cst Mineral +Synthetic
Thickener	Originally modified clay
Solids	MOS2 , Graphite & Micronized Copper
Temperature Range	-20°C to +1200°C.
Drop Point	+320
Weld Load	350 to 400

ALX 1000 GREASE (ALUMINUM-COMPLEX, MOLY, GRAPHITE)(Equivalent of bechem berulit Sm Super Grease, Grease)

DESCRIPTION: ALX 1000 GREASE is a premium high quality grease formulated with extreme pressure (EP), anti-wear package, fortified with synergistic combination with powerful balanced blend of Aluminum- Complex and solid lubricants (Copper micronized, MOS2 and Graphite) in a heavy duty, high film strength virgin base oil and does not contain any asphalt or chlorinated solvent.

APPLICATION : Ball, roller, Sleeve bearings, sliding surfaces in open running Gears drives, Steel, Sugar mills bearings, Cement mill journals, chemical plants, paper mills, Mining, Process plants, Crushers, Screens and Kilns are operated at high temperatures.



NLGI GRADE	ALX 1000 -2	ALX 1000 -1	ALX 1000 -0
Colour	Black Metallic Colour		
Thickener Soap	Aluminum-Complex		
Solid Lubricants	5% MOS2 , Graphite & Micronized Copper		
Viscosity @ 40	Mineral & 1000 cst		
Drop Point	+250	+250	+250
Operating range	-20°C to 240°	-20°C to 240°	-20°C to 240°
Weld Load	+800	+800	+800

PD HTXX-2 GREASE (BENTONITE CLAY)

DESCRIPTION: PD HTXX-2 GREASE is formulated and contains antioxidants, anti corrosion, rust inhibitors and EP additives, bentonite clay thickener grease designed with high viscosity mineral oils to withstand water provide a heavier .

APPLICATION: Power Generation, Metals, Mining, Construction, Such as furnace door bearings and kiln car wheel bearings , shaker screens, wood and metal routers, machine tool spindles, spinning spindles, disk drives, high speed looms, roll neck bearings.



NLGI GRADE	2
COLOUR	Golden Brown
THICKNER TYPE	BETONITE CLAY
VISCOCITY @ 40 cSt	220
DROP POINT, oC min	ABOVE 280
Operating Temperature	20°C to 220°C
WELD LOAD	350

SILICON-100 GREASE (SILICONE BASED OIL)

DESCRIPTION: Silicon-100 Grease is non-melting heavy consistency grease specially designed with non toxic materials, offers good resistance to solvents, no harm for plastics or rubbers, good adhesive sealant, non-melting. Suitable for lubrication in valves used in chemical industries and hot and cold water lines.

APPLICATION: Plastic, Rubber to Plastic & Rubber to Metal assemblies. Also it is used as releasing agent in epoxy, Polyester, PVC & Polystyrene moldings, O-Rings, Packing and rubber assemblies.



NLGI	GRADE2
Colour	Translucent White
Base Oil Type	SILICONE
viscosity @ 40 °C	180
Drop Point	Does not drop
Operating Range	-40°C to 260°C
Weld Load	250

HT 800 CHISEL PASTE/ HAMMER (ALUMINIUM COMPLEX, MOLY, GRAPHITE, MICRONIZED COPPER)

DESCRIPTION: HT 800 CHISEL PASTE is an extreme pressure, high temperature paste fortified with a balanced blend of solid lubricants (Copper, MOS2 and Graphite) in a heavy duty, high film base oil, which keeps it from flowing and prevents cold galling, seizing, and premature wear on plug tools and wear liners.



APPLICATION: Wear liners, Screw connections, Ball, Roller, Sleeve bearings, Open running Gears drives, Mining, Process Plants, where Crushers, Screens and kilns where operated at high temperatures.

NLGI	GRADE ALX 1000 -2
Colour	Dark Metallic Brown
Thickener Soap	Aluminum-Complex
Solid Lubricants	5% MOS2 , Graphite & Micronized Copper
Viscosity @ 40 oC, cSt	Mineral & 1000 cst
Drop Point	none
Service Temperature	-20°C to 1100°
Weld Load	+800

SYNTHETIC HT LCX-2 460 (PAO (PolyAlphaOlefin) BASE OIL, LITHIUM COMPLEX)

DESCRIPTION: SYN HT LCX-2 460 GREASE is lithium complex grease based on synthetic base oils PAO (Poly-AlphaOlefin), containing antioxidants, EP, wears and rust preventing additive. The use of synthetic base oils is necessary to reach performance levels that traditional greases based on mineral oils cannot attain. Synthetic greases are composed of 100% synthetic base oil which provides the lubrication.

APPLICATION:Versatile applications – general manufacturing, Concaster bearings, Paper mill bearings (dry end) and Automotive plants, fleet, power generation, metals, mining, construction, Quarry (stone crusher), wheel hubs, shaker screens, metal routers, machine tool spindles, disk drives, high speed looms and industrial lubrication where non-melting grease is required.



SYNTHETIC POLY-X EXTREME GREASE (PAO (PolyAlphaOlefin) BASE OIL, POLYUREA BASED)

DESCRIPTION: SYNTHETIC POLY-X EXTREME GREASE is Synthesized Polyurea based Grease blended with thermally POLYALPHAOLEFIN (SYNTHETIC) base oil and performance enhancing synergistic anti-oxidant additives to provide superlative lubrication of Roller bearings at high temperature levels. **APPLICATION:** Versatile applications – general manufacturing, Concaster bearings, Paper mill bearings (dry end) and Automotive plants, fleet, power generation, metals, mining, construction, Quarry (stone crusher), fkliln car wheel bearings , wheel hubs, shaker screens, wood and metal routers, machine tool spindles, disk drives, high speed looms and for general industrial lubrication where non-melting grease is required.

NLGI	2	1	2
Thickener type	Lithium-complex	Synthesized Polyurea	
Appearance	off white	Smooth buttery - WHITE	
Viscosity at 40C	Synthetic (PAO) 460		
Operating Temperature	-40°C to +250 °C	-30 to 220	-30 to 220
Dropping Point	280	240	240
Weld Load	800	400	400

SYNTHETIC PREMIUM MOLY 1500 HTXX-2 GREASE

DESCRIPTION: SYNTHETIC PREMIUM MOLY 1500 HTXX-2 GREASE is synthetic long life moly disulfide high temperature grease designed for automotive and industrial applications. It contains antioxidants, anti corrosion and EP additives, solid lubricants containing (MoS2 & Graphite, copper, zinc...) and bentonite clay thickener grease designed with high viscosity synthetic base oils to withstand water. **APPLICATION:** Conveyors, industrial painting lines, Tyre moulds & Screwed assemblies...Oven racks and furnace hearth rollers, Oven fan bearings & Bearings for pre-heater rollers. Excellent performance over slip rings in sponge iron industries.Versatile applications for Sugar mills bearings, Steel, Cement mill journals, chemical plants, textile and construction and paper mills where grease is exposed to very wet conditions, mining and process plants, where crushers, screens and kilns are operated at high temperatures.



NLGI GRADE	2
Appearance	Grey Black
Thickener	In Organic Bentonite Clay
Solid Lubricants Weight %	Synthetic + 20% Graphite & 5 % MoS2 (moly)
Viscosity @ 40 oC, cSt	Synthetic -1500 cst
Drop Point	none
Operating Temperature °C	-20 to 600
Weld Load	800

AUTOMOTIVE & CONSTRUCTIONS, QUARRY AND MININGS GRADES

DIESEL ENGINE OIL CI-4(PLUS), CI-4, CH-4, CF-4 (20W40, 15W40, 10W40)

DESCRIPTION: DIESEL ENGINE OIL is an premium quality long drain advanced ultimate-performance multigrade DIESEL ENGINE OIL designed with highly refined (Group 2 & 3) base oil stocks and used in the most severe on-highway and off-highway applications. **APPLICATION:** Recommended for diesel and gasoline engines such as turbocharged used in passenger cars pick-up trucks, four-wheel drive (4WD) and sport utility vehicles SUVs, most-modern, highway equipments, transmissions, hydraulic systems, handling machineries and generating sets, gear boxes. **SPECIFICATIONS AND RECOMMENDED:** SAE Viscosity Grade: 15W-40 & 20W40 / API CI-4(PLUS), CI-4, CH-4, CF-4, ACEA E7, E5, E3, A3/B4, Global DHD-1, Mack EO-M Plus, EO-M+, MAN 3275, MB Approval 228.3, Renault Trucks RLD-2, Volvo VDS-3, Allison C-4, Caterpillar ECF-1a, ECF-2, Cummins CES 20071, 72, 76, 77, 78.



SAE GRADE	CF-4 15W40	CF-4 20W40	CH-4 15W40	CI-4 15W40	CI-4+ 15W40
Viscosity @ 40 °C	107.55	170.75	105.1	110.3	116
Viscosity Index	133	116	138	142	153
Flash Point	214	223	215	224	228
TBN	9.5	8	10.1	9.2	10.1

GASOLINE ENGINE OIL

(MULTIGRADE ENGINE OIL) CF/SF, CH/SL, CI4/SM: 20W40, 15W40 MULTI-GRADE ENGINE OIL (PETROL & DIESEL LIGHT DUTY PASSENGER CAR AND 3 WHEELER)

DESCRIPTION: Multi grade oil is formulated with highly refined base oils and advanced additive packages. It meets the required performance standards of latest gasoline engines, turbo charged and naturally aspirated.

SPECIFICATIONS AND RECOMMENDED: Recommended for all modern vehicles including high performance, turbocharged, multi valve, direct injection gasoline and diesel engines of passenger cars. Used for engines where API series category SL and earlier categories are recommended.

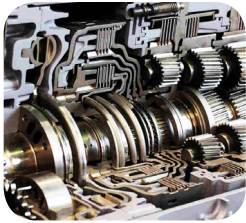


PROPERTIES	CF/SF 20W40	CH/SL 15W40	CI4/SM 15W40
Viscosity at 40 °C, cst	172	122.9	118.8
Viscosity Index	120	124	127
Flash point , COC °C	220	212	216
TBN	7.2	8.6	11.4

AUTOMOTIVE GEAR OIL GL-4 & GL-5: 90, 140, 80W90, 85W140 & 75W90 SEMI-SYNTHETIC , GRADES GL- 4 & 5: 90, 140, 80W90, 85W140, 75W90.

DESCRIPTION:

- **GEAR OIL GL- 4 & 5** oils are designed and manufactured from selected premium quality base oils and additive packages to provide excellent protection for heavy duty manual transmissions in equipment and vehicles.
- **GEAR OIL Semi-Synthetic 75W90 GL-5** is a high performance product manufactured from a blend of synthetic oil, sheer stable viscosity index improvers and a multipurpose extreme pressure additive system.



APPLICATIONS:

- **GEAR OIL GL- 4 & 5** use in high performance manual transmissions, spiral bevel axles, high load drive axles, hypoid axles and steering units. The use of this product will often smooth and improve manual gear changes in previously “notchy” gear boxes.
- **GEAR OIL Semi-Synthetic 75W90 GL-5** is recommended for the lubrications of hypoid, spur, bevel, helical and worm gears in differentials.

SPECIFICATION:

SAE Grade GL-5	90	140	80W-90	85W-140	75W90
Appearance	Clear & Bright				
Viscosity at 40	195	430	213	364	62
Viscosity Index	96	96	101	100	140
Flash Point	220	230	222	230	216

HYDRO AW, HLP, HVI, HVL (GRADES: 32, 46, 68, 100)

DESCRIPTION: HYDRO AW, HLP, HVI, HVL Hydraulic Oils Formulated with highly refined quality virgin paraffinic base oils **Group 2 for AW, HLP & Group-3 for HVI, HLP**, a highly sheer stable polymer and an advanced additive system to meet the stringent requirements of modern hydraulic systems and specially developed for applications subjected to wide range of temperature at high pressure or where small viscosity change with fluctuating temperature is required.

APPLICATION: Hydraulic systems like excavators, cranes, concrete pump, hydrostatic drives, Mobile hydraulic fluid, power transmission systems and general machine lubrication etc, subjected to most severe operating conditions under moderate to severe conditions in mobile and industrial service even in environmentally sensitive. Older design hydraulic pumps containing silver or silver plated parts.



SPECIFICATION OF POWERMAXX HYDRO AW & HLP (GROUP-2)

HYDRO (GROUP-2)	AW 32	AW 46	AW 68	AW 100	HLP 32	HLP 46	HLP 68	HLP 100
Viscosity @ 40° C	32.8	46.8	68.5	101.4	32.7	45.6	68.4	99.8
Viscosity Index,	97	97	96	96	110	108	108	104
Flash Point,	210	212	212	216	215	220	220	228

SPECIFICATION OF POWERMAXX HYDRO AW & HLP (GROUP-3)

HYDRO (GROUP-2)	HVI 32	HVI 46	HVI 68	HVI 100	HVLP 32	HVLP 46	HVLP 68	HVLP 100
Viscosity @ 40° C	32.7	46.7	68.7	100.7	32.7	45.6	68.4	99.8
Viscosity Index	164	145	148	127	164	164	156	130
Flash Point	220	232	236	248	250	232	240	258

TRANSMISSION SAE 10W/30/40/50/80, TQ-ATF D-III

DESCRIPTION: A range of quality single grade transmission fluids blended from quality base oils together with a specific additive system.. Improved frictional properties, Antiwear performance oxidation stability and Wet Brake performance offer the essentials for longer equipment life.

APPLICATION:

- **Grade SAE 10W** is used in hydraulic systems.
- **Grade SAE 30, 40 & 50** is used in power shift transmissions & gearboxes.
- **Grade SAE 80** is a UNIVERSAL TRACTOR TRANSMISSION (UTTO) 3 in 1 oil designed for transmissions, final drives and hydraulic systems for agricultural and commercial tractors.
- **TQ-ATF D-III quality fluids**, such as power steering systems and hydraulic

SPECIFICATION:

SAE	10W	SAE 30	SAE 40	SAE 50	SAE 80	TQ-ATF D-III
Viscosity at 100°C	6.1	11.6	13.3	18.4	9.6	7.1
Viscosity index	120	99	99	98	138	170
Flash point	232	241	247	257	210	190
TBN	11	11	11	11	9.2	8.7



SHUTTER FLUID-80 (SHUTTERING OIL (MOULD RELEASE) FOR CONSTRUCTION)

DESCRIPTION: POWERMAXX SHUTTER FLUID-80 is excellent shuttering oil specially formulated for the construction industry, which provides good surface finish to the concrete. Oil is a carefully blended combination of refined emulsified mineral oil.

APPLICATION: Recommended for use in the production of concrete sleepers and mould releasing of concrete structural, when applied to steel, plastic, wood, clean, fiberglass, aluminum & paper fast and easy stripping. Precast, and pipe plants RCC structures **COVERAGE: Timber: 20 - 25 sq.mtrs. / liter, Steel / plastic: 50 – 60 sq.mtrs. / Liter.** When spray applied depending on smoothness and porosity of the formwork used.



CHARACTERISTICS	SPECIFICATIONS
Appearance	Yellowish clear
Viscosity at 40 °C	5.1
Spray ability	Very good
Flash point	82

SUGAR INDUSTRY OIL

SUGAR ROLLING MILL OIL (GRADES: 40, 80, 120)

DESCRIPTION: SUGAR ROLLING MILL OIL is containing high viscosity lubricating oil base stocks and contain selected non-toxic mild EP and special compounding agents for efficient and Bituminous Lubrication with excellent load carrying ability. Sugar mill oil prevents Wear and Corrosion of Bearings and also has Excellent Resistance to Leakage. **APPLICATION:** Recommended for use in slow, high, & medium speed performance for oil Lubrication of Heavily Loaded Mill Roll Bearings in Sugar mill oil and in Centralized Lubrication Systems of Slow Speed Spur and Helical Gears in certain Industries and for Open Gear Lubrication Systems



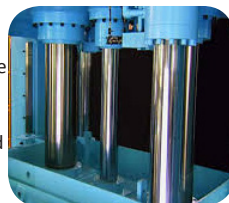
SAE GRADE	40	80	120
Viscosity @ 100 °C, cSt	35-45	75-90	110 TO 130
Flash Point, (COC) °C,	230	230	230
Timken OK Load, lbs	35	35	35

INDUSTRIAL LUBRICANTS

HYDRAULIC AW, HLP, GRADES: 32, 46, 68, 100, 150

HYDRO AW/HLP OIL is blended from premium quality base oils and additive package to provide excellent protection against wear and corrosion, enhance thermal stability and resistance to rusting and foaming.

APPLICATION : The product is designed for use in hydraulic systems in industrial and mobile service where anti wear properties are required.



INDUSTRIAL EP GEAR OIL & SYNTHETIC EP GEAR OIL

EP GEAR OIL is premium quality extreme pressure gear oils with excellent load carrying capacity, water demulsibility, oxidation stability, and corrosion protection. POWERMAXX EP gear lubricants are high performance, multipurpose gear lubricants designed for many types of industrial gear lubrication services where loads and shock loadings are high. **APPLICATION:** Recommended for: Bath, splash, circulating, or spray mist lubrication as applicable to the proper viscosity grade. General industrial plant lubrication where the performance properties of anAGMA extreme pressure lubricant is required.



EP GEAR OIL PROPERTIES

EP GEAR OIL	68	150	220	320	460	680
Viscosity, cSt @ 40°C	68	150	220	320	460	680
Viscosity Index	99	100	100	100	97	92
Flash Point	236	240	243	256	262	272

SYNTHETIC EP GEAR OIL is synthetic heavy duty industrial gear oils offering outstanding lubrication performance and load carrying capacity under severe operating conditions including shock loading. These are formulated from extremely high viscosity index base stock and water soluble Polyalkylene Glycol (PAG) base stocks with EP properties and oxidation resistance. It provides excellent thermal stability, protection against scuffing and resistance against micro pitting under wide operating temperature range.

APPLICATION : Modern, highly loaded gearboxes used in the paper, steel, oil, textile, lumber and cement industries & construction where gear protection and optimum oil life are required, Fill for life systems, chain and conveyors, kiln and ovens, concrete pumps, textile lubricants, compressor (Reciprocating, Rotary screw), Plastic extruder gearboxes,

SYNTHETIC EP GEAR OIL PROPERTIES

SYNTHETIC EP GEAR OIL	150	220	320	460	680
Viscosity @ 40 C, cSt	152	224	312	475	727
Viscosity Index	201	240	247	259	272
Flash Point, C	282	282	284	282	285

MACHINE OIL GRADES: 40

MACHINE OIL are blends of high quality mineral base oils and selective EP additive package to provide low frictional properties, excellent corrosion protection, tackiness characteristics. It is compatible to water mix cutting and grinding fluids which helps to prevent formation of solid blockages **APPLICATION: MACHINE OIL** are recommended for machine tool slideway surfaces, tables and feed mechanisms, Turbochargers, oil filled stern tubes and variable pitch propellers.



SPINTEX OIL GRADES: 5, 12, 15, 22

Spindle oils are low viscosity lubricants manufactured from highly refined base stocks possessing excellent chemical and oxidation stability and further fortified with carefully selected oxidation and rust inhibitors, antiwear and antifoam agents.

APPLICATION: These oils are recommended for lubrication of textile and machine tools, spindle bearings, timing gears, centrifugal separators, positive displacement blowers and hydraulic system of certain high precision machine tools, textile machinery manufactures like lmw, textool, texmaco etc.



HI-THERMO 550, 600 & SYNTEC HI-THERMO (HEAT TRANSFER)

HI-THERMO -550, 600 HEAT TRANSFER OIL (THERMIC FLUID) is compounded with quality paraffinic base oils to provide excellent heat transfer properties in chemical processing plants. A thermally stable oxidation inhibitor is added to enhance thermal stability and resists chemical oxidation makes it suitable to withstand rapid heating. **SYNTEC HI-THERMO** uses the hydrogenated terphenyls chemistry of the most popular high temperature liquid phase heat transfer fluid. A superior synthetic heat transfer fluid that delivers outstanding performance and thermal stability. **OPERATING TEMPERATURE**



- **HI-THERMO 550:** operating temperature up to 285°C to 305°C
- **HI-THERMO 600:** operating temperature up to 305°C to 335°C
- **SYNTEC HI-THERMO:** operating temperature up to 375°C

APPLICATION: **HI-THERMO -550, 600** application in textile, Constructions & Mining, pharmaceuticals, chemical and processing industries. **SYNTEC HI-THERMO** is suitable for use in heat transfer systems of food, feed and drink plants.

AIR COMPRESSOR OIL GRADES: 32, 46, 68, 100, 150, 220

AIR COMPRESSOR OIL is compounded with premium quality base oils and selected additive packages to provide exceptional performance, resistance to formation of deposits on valves and intercoolers and in compressor air ways.

APPLICATION: **AIR COMPRESSOR OIL** Series is specially suited for Single stage reciprocating compressors up to 125 PSI, Two stage reciprocating compressors up to 300 PSI and Multistage reciprocating compressors after breaking with air discharge temperature up to 220 °C.



REFRIGERATION COMPRESSOR OIL GRADES: 22, 32, 46, 68

REFRIGERATION COMPRESSOR OIL is formulated with naphthenic base oils and selected additive package. It provides very low pour points, very low floc point, high resistance to deposit formation and chemical and thermal stability to provide excellent performance over long service period. **APPLICATION:** This product is recommended for use in refrigeration compressors using CFC and ammonium refrigerant gases. It is not recommended for compressors using HFC refrigerant gases such as R134Aa and R23.



TURBINE OIL GRADES: 32, 46, 68, 100

TURBINE OIL is produced from selected turbine quality base oils and additive systems to meet the requirements of leading turbine manufacturers. The oils have good oxidation control, anti corrosion and anti wear properties and excellent hydraulic stability and anti foaming characteristics. **APPLICATION:** Recommended for use for power generation steam turbines, Industrial steam turbines, steam turbines and non-g geared gas turbines for requiring high quality rust and oxidation (R&O) inhibited oils.



METAL WORKING FLUIDS

MULTI WIRE DRAWING OIL GRADE: TDR-500 (MINERAL OIL) & TDR-550 (SYNTHETIC OIL)

TDR-500(MINERAL OIL) was developed in mineral lubricant especially for use as a lubricant for drawing aluminum. It can be used neat and these lubricants do not interfere with coating. **TDR-550(SYNTHETIC OIL)** is a partly synthetic lubricant specially intended for the wire drawing, deep drawing and die-cutting of steels, including stainless steel. **APPLICATIONS & USAGE** : Before **TDR-500** is charged into a system, machines should be thoroughly cleaned. In order to obtain optimum results from Drawplus-55, the system must be kept free of moisture. Before **TDR-550** is applied by dripping, recirculation, and impregnation with rollers or belt. It is used for deep drawing of all kind of steel wires also, aluminum to aluminum and can also be used on stainless steel, bronze, brass, galvanized steel, titanium and other metals.



NEATCUT PLUS (GRADES: 15, 22, 32, 40)

NEATCUT PLUS is active type neat cutting oil. This oil contains a sulphurised fatty material, which improves oiliness property thus providing better surface finish. Neat cutting Oil is blended with highly refined HVI refined oils and selected oiliness additives to improve the surface of various machines.

APPLICATIONS: Neatcut plus cutting oil is recommended for machining operations on high tensile stainless steel as well as Ni-Cr alloys by automatics, gear cutting, hobbing, drilling, reaming and thread cutting machines.



SOLUBLE CUTTING OIL MINERAL, SEMI-SYNTHETIC, SYNTHETIC.

SOL CUT 100, SUPER SOL CUT 150 (FAST & HARD WATER), MINERAL OIL

Long-life Conventional milky emulsion with High-performance, milky soluble fluid providing excellent batch life and lubricity.

SEMI SYNTHETIC SOL CUT 220, SEMI SYNTHETIC SOL CUT 250, SEMI-SYNTHETIC

Semi-synthetic, High-performance multipurpose long-life cutting fluid. Recommended for machining a variety of ferrous and nonferrous metals.

SYNTHETIC SOL CUT 320, SYNTHETIC SOL CUT 350. FULLY-SYNTHETIC

Fully synthetic (no oil) machining and grinding metalworking fluid for operations where high surface finish, cooling and low foam are primary requirements.

APPLICATIONS:

- **SOL CUT 100, SUPER SOL CUT 150** General machining of easy to machine steels, aluminum, and copper alloys in light to heavy duty moderate machining operations and Designed for hard water, long service life and a high degree of lubricity for a range of moderate- to heavy-duty applications.
- **SEMI SYNTHETIC SOL CUT 220 & 250** Semi synthetic cutting fluid is High performance, primarily recommended for machining of aluminum, aluminum alloys, steels, easier to machine stainless steels, and cast iron in milling, turning, sawing, boring, drilling and reaming.
- **SYNTHETIC SOL CUT 320 & 350** Synthetic (mineral oil-free) fluid for general cutting and grinding operations of ferrous materials from light to severe duty, designed for modern machining equipment and high surface finish.



TUBE DRAWING OIL FOR COLD PILGERING

EQUIVALENT OF CASTROL TDN-81 & TDN 81 N GRADES: 90, 110, 140, 240

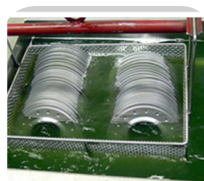
TDR is superior quality neat oil blended from high flash and low volatility mineral base oils. It is blend of highly chlorinated extreme pressure type oil with fatty oil and sulphur. At the drawing periphery there is a chemical reactivity on the metal surfaces where by the layer of additives are helpful. **APPLICATIONS** : TDR is ideally suited for most severe drawing applications of stainless steel. It is used for cold pilgering and ensures low wear on mandrel and dies. It is widely used for deep drawing and cold rolling of stainless steel tubes.



RP DW 175, 275, 375

RP DW is a premium quality solvent deposited corrosion preventive with excellent dewatering properties. After evaporation of the solvent, the product leaves an ultra-thin greasy protective film. The very thin residual film provides effective short to medium term protection against corrosion during intermediate storage or transportation.

APPLICATIONS : RP DW can be applied by brushing or spraying, its dewatering action is most effective if the articles to be protected can be immersed in a dip tank.



QUENCHING OIL (GRADES: P-110, P-210, P-310, P-410)

QUENCH P-110 quenching oils permit uniform hardening of steels with minimum distortion and discoloration, while helping improve grain structure and promote long service life. **QUENCH P-210** is a highly refined paraffinic mineral oil blended with additives to impart rapid cooling, excellent oxidation stability and extended service life. **QUENCH P-310** is dark quench oil containing a highly refined paraffinic mineral oil and an accelerant additive to provide rapid cooling. **QUENCH P-410** is made from highly refined paraffinic base oils and is used in quench and marquench operations. It is suitable for the production of very hard parts especially where distortion of the quenched parts cannot be tolerated.

APPLICATIONS: Quench oil systems



MARINE LUBRICANTS

MARINE HYDRAULIC OIL:

GRADES 12, 22,32,46,68,100,150

DESCRIPTION : MARINE HYDRAULIC OIL series are supreme quality anti-wear hydraulic oils specially developed for applications subjected to wide range of temperature or where small viscosity change with fluctuating temperature is needed.

APPLICATIONS : Hydraulic systems of excavators, cranes, hydrostatic drive, power transmission systems subjected to a wide range of ambient & operating subjected to most severe outdoor operating conditions



EP GEAR OIL GRADES:

68, 100, 150, 220, 320, 460, 680

DESCRIPTION: EP GEAR OIL series are high performance extreme pressure gear oils developed for lubrication of heavy duty industrial gears working under severe operating conditions. These are blended from high quality base stocks and sulphur-phosphorous type extreme pressure additive system that gives excellent load carrying capability to provide protection against shock loading and wear.

APPLICATIONS : Heavy-duty industrial enclosed gears operating under heavy or shock loading conditions and requiring extreme pressure performance. Suitable for splash, mist and circulating systems. Marine gear applications.



TURBINE OILS

DESCRIPTION : Turbine Oils are formulated with High Viscosity Index base oils and selected ash less additives to provide outstanding performance and protection in turbines. It has outstanding oxidation resistance and thermal stability at high temperatures to minimize deposit formation and provide long service life.

APPLICATIONS : These oils are recommended for steam, gas and hydraulic turbine systems.



SEA CYLCURE CI-4 SP 15W40 (HIGH SPEED)

DESCRIPTION : TMARINE CI- 4 SP 15W-40 is a mineral based marine engine oil providing good performance in high output, high speed, turbo charged engines operating under severe conditions and has excellent thermo-oxidative stability, controlling deposits and viscosity increase. Excellent soot handling controls soot induced oil thickening and effectively prevents wear.

APPLICATIONS : It is recommended for turbo charged and naturally aspirated diesel engines such as used on board ships and can also be used in marine transmissions requiring oil with Allison C-4. General lubrication of ship board equipment where API CI-4 quality oils are adequate.



SEA CYLCURE 3006, 3008 (SLOW SPEED) 2 STROKE (SYSTEM OIL)

DESCRIPTION : SEA CYLCURE 3006, 3008 ENGINE OIL is premium quality system oil designed for modern highly rated low speed crosshead marine engines including that employing system oil for piston cooling. This oil is formulated from high quality paraffinic base oils with latest additive technology to provide excellent thermal stability and oxidation resistance

APPLICATIONS : Recommended for crankcase lubrication in the latest highly rated low speed crosshead marine engines including those employing system oil for piston cooling



SEA CYLCURE 4020, 4040 (MEDIUM SPEED) 4 STROKE (TRUNK PISTON ENGINE OIL)

DESCRIPTION : Marine Trunk Piston Engine Oil specially designed for modern Medium Speed 4-stroke Marine Diesel Engines running on Intermediate Fuel Oil (IFO) or Heavy Fuel Oil (HFO). Powermaxx Sea Cylcure 4020, 4040 is trunk piston engine oil designed for the lubrication of medium speed diesel engines when a superior detergency property is required.

APPLICATIONS : General lubrication of ship board equipment where API CF quality oils are adequate. Recommended for medium speed diesel engine in marine, power generation and industrial application on residual fuels.

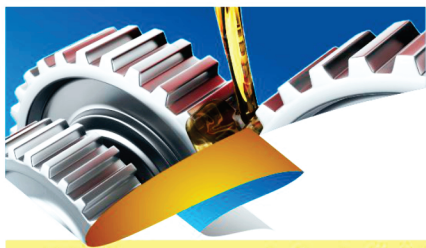


SEA CYLCURE 5040, 5055, 5070, 5085, 5100 (LOW SPEED) 2 STROKE (CYLINDER ENGINE OIL)

DESCRIPTION : POWERMAXX SEA CYLCURE 5040, 5055, 5070, 5085, 5100 is a superior quality Marine Cylinder Lubricant (MCL) designed for the very latest modern low speed 2-stroke crosshead diesel engines operating on residual fuels having sulphur content in excess of 1%. It is specially developed for diesel engines operating with higher brake mean effective pressures longest stroke length and Tier II compliance.

APPLICATIONS : 40 TBN, 55 TBN, 70 TBN to 85 TBN or 100 TBN cylinder oil is recommended where there is evidence of cold corrosion or when using the correct cylinder oil feed rate the residual BN in the scrape down oil is continuously lower than the manufacturers limit.





POWERMAXX LUBE INDIA

We "Powermaxx Lube India" introduce ourselves as leading Manufacturers in Specialty Lubricants & Greases Products of Sugar Mill Industry. Powermaxx has the complete portfolio for premium Lubricants and Greases for Sugar Mill Industry. Application includes sugar mill bearings and open gears.



High Performance Oil & Greases for Sugar Cane Industries

SUGAR INDUSTRY GREASE:



- ALX-1000 2/1/0, (Aluminum-Complex + Moly)
- MOLY 1000 HTXX- 2/1/0, (Bentonite Clay + Moly)
- MOLY 1400 HTXX- 2/1/0, (Bentonite Clay + Moly)
(EQUIVALENT OF SHELL GADUS S2 U1000D 2,
MOLYKOTE BR2 PLUS, BECHEM BERULIT SUPER SM,
BALMEROL SMB-2 GREASE, SERVO GREASE CG-50)
- AP3, EP-2, EP-3, GREASE, SPECIAL EP CRUSHER GREASE
- PD LCX-222 & HT LCX-2 460 (LITHIUM COMPLEX)



SUGAR INDUSTRY OILS

- HYDRAULIC AW 46, 68, 100
- GEAR OIL GRADES: EP 150,220,320,460,680
- SUGAR MILL OILS: 40, 80, and 120
- CI4+ 15W40 ENGINE OIL



POWERMAXX LUBE INDIA



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**AUTOMOTIVE, CONSTRUCTION, QUARRY,
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SPECIALITY GREASES**



INDUSTRIAL LUBRICANTS



METAL WORKING FLUIDS



SUGAR INDUSTRY OIL & GREASES



MARINE LUBRICANTS & GREASES



POWERMAYX LUBE INDIA

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