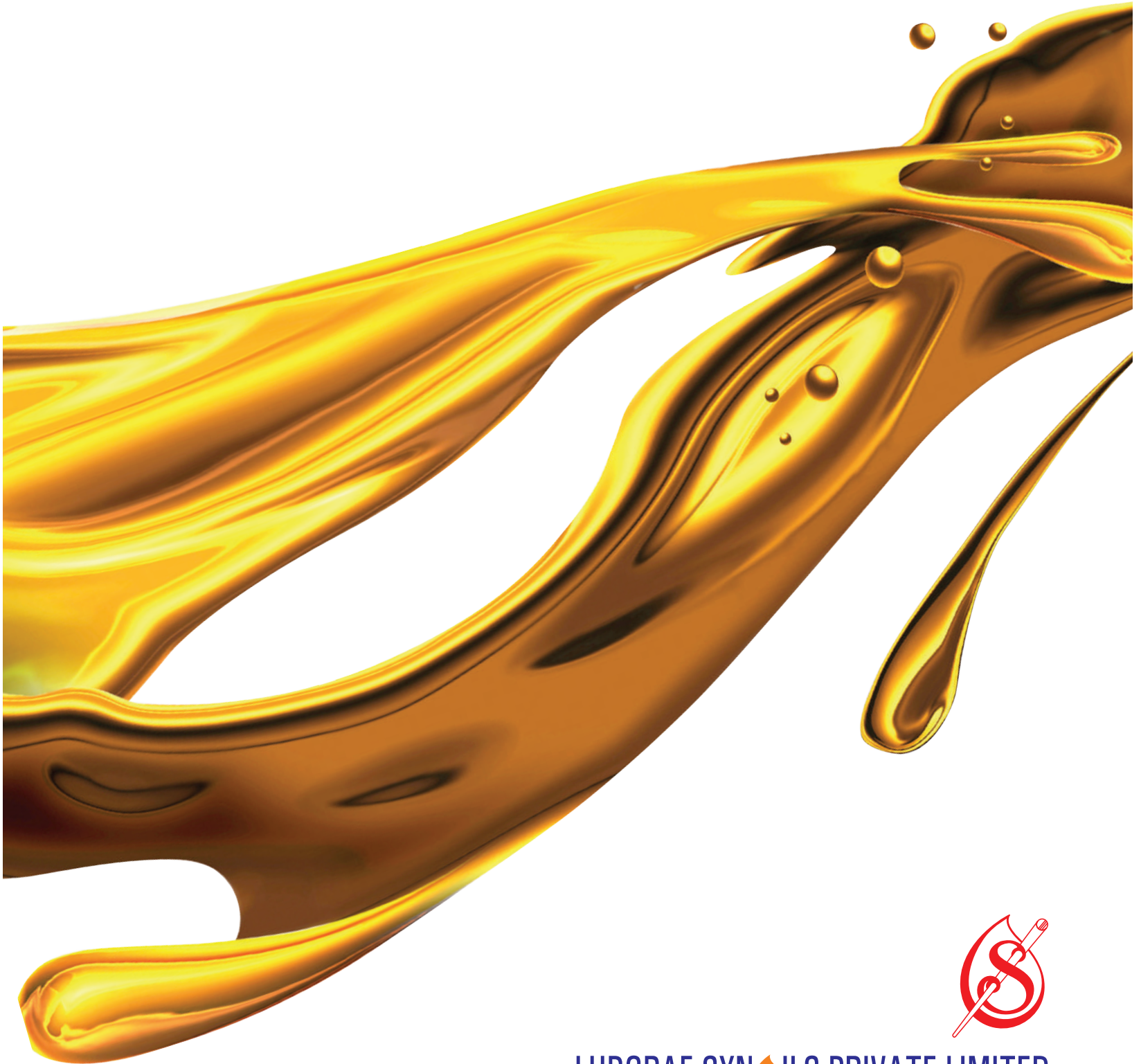


LUBRICATION SOLUTIONS FOR
INDUSTRIES

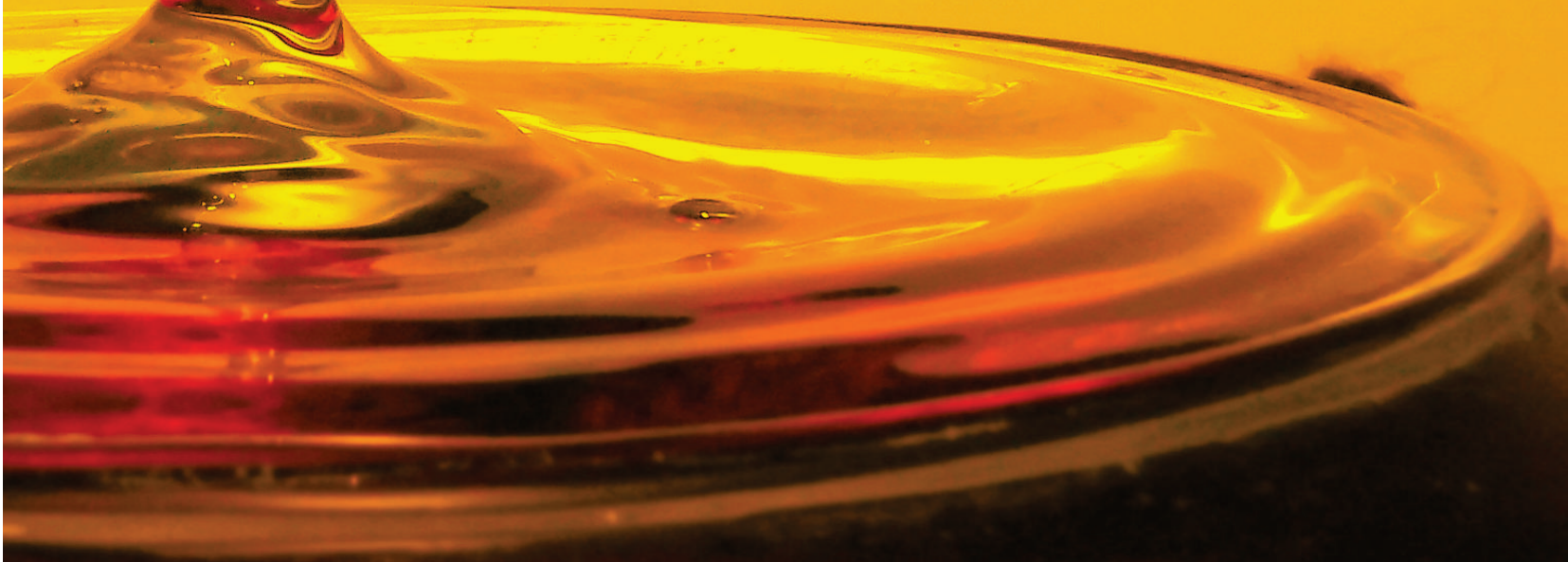


LUBGRAF SYNILS PRIVATE LIMITED



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LUBGRAF SYN OILS PRIVATE LIMITED

COMPANY PROFILE

Lubgraf Synoils Private Limited is a solution provider in field of lubricants. Lubgraf Synoils is committed in providing advanced and most innovative lubrication solutions. Lubgraf Synoils continuously seeks to improve and advance technology that helps the customer to increase production and maximize efficiency while lowering overall cost.

Lubgraf Synoils' fifty plus years of experience in the industry provides an extra edge to find the best possible solution. Through the years Lubgraf Synoils product range have increased to include oil dispersion, synthetic fluids, water based lubricants, grease, oils and aerosols that have found application in wide range of industries.

Lubgraf Synoils is an ISO 9001:2008 certified company that constantly works and strives to achieve highest quality products and standards.

Lubgraf Synoils has its own standardize blending and manufacturing unit. The production facility is complemented with more than adequate laboratory which is equipped with multiple performance testing apparatus to ensure the products are of excellent and standard quality.

Lubgraf Synoils mission is to provide the best possible and most advanced lubricants that can meet the current market requirements.

Lubgraf Synoils vision for future is to grow with high standards, good working ethics while providing lubricants that serve as market standards. Conservation of energy, material and cost is the ultimate goal.

For our customer Lubgraf Synoils has been a standard in service, solutions and products. The solutions provided by Lubgraf Synoils has helped the customer in making their process advanced, easier and efficient with smoother operations all while decreasing overall costs and carbon foot print by conserving energy and material.



PRODUCT RANGE



Grease, Gear lubricants, conductive and non-conductive lubricants, compressor oils, aerosols, anti-seize compounds, silicon fluids, dry, bonded and other speciality lubricants.



Water, powder and oil base lubricants for cold/warm and hot forging/extrusion and other metal forming applications.



Oil and dispersions for cold drawing and other such metal forming applications.



Wax, oil and water based rust preventive and rust cleaners. De-watering fluids.



Graphite & non-graphite based lubricants for die-casting. Water base die-coats.



Neat and soluble oils, semi synthetic & synthetic fluids for cutting, machining and other metal working applications.



Range of water & solvent base de-greasing agents and industrial cleaners.





Directors Note

Acknowledgment:

On behalf of everyone at Lubgraf, I would like to thank and sincerely appreciate the foundation and knowledge given by our late founder Shri Chimanbhai B. Patel, his guidance and mentorship has helped Lubgraf to cement itself as a speciality lubricant manufacturer. As we move to newer horizon we hope to have his blessings.

To our customers and associates:

Thank you for your support, faith and opportunities given. With your help and associations, by working together, Lubgraf's product portfolio has grown to more than three hundred lubricants which are used in wide range of industries.

Our Employee's:

Years of sustained growth at Lubgraf has been a product of smart, hard working and talented group. I thank all our past and present employees. Working at Lubgraf has come with its own challenges. Our work has always demanded hard and long hours. Together we are working to build something important and something that matters. Such things are not meant to be easy.

Our Future:

Lubgraf since its inception have seen many changes. In past year we have increased our infrastructure three folds. This success has been a result of constant efforts to design better and advanced lubricants.

Looking ahead Lubgraf is focused and committed in working together with our customer to develop and provide most optimum tribological solutions that result in savings of energy, cost and environment.

Jinal Harenbhai Patel
(Technical)



MULTIPURPOSE GREASES

SPELUB EP SERIES:

Extreme pressure light coloured E.P. greases formulated with new technology soaps that performs better than conventional E.P. greases. Spelub EP greases are formulated with high grade mineral oil that have better viscosity index and are resistant to oxidation Spelub EP series are available in “000”, “00”, “0”, “1” & “2”. N.L.G.I. Grades.



	Spelub EP 000	Spelub EP 00	Spelub EP 0	Spelub EP 1	Spelub EP 2
N.L.G.I. Grade	000	00	0	1	2
Penetration	-	410 to 440	365 to 395	310 to 340	265 to 295
Drop Point	N.A.	N.A.	>165°C	>180°C	>190°C
Base Oil	High Grade Mineral Oil				
Thickener	Proprietary Lithium				
Operating Temp.	-10°C to 110°C	-10°C to 110°C	-10°C to 110°C	-10°C to 140°C	-10°C to 140°C

SPELUB MP SERIES:

Multipurpose greases fortified with E.P. agents, anti-corrosive additives and anti-oxidants for better performance than conventional greases. Spelub MP Series are available in N.L.G.I. 2 and 3 grades.

	Spelub MP-2	Spelub MP-3
N.L.G.I. Grade	2	3
Penetration	265 to 295	220 to 250
Drop Point	>190°C	>190°C
Base Oil	High Grade Mineral Oil	
Thickener	Proprietary Lithium	
Operating Temperature	-10°C to 140°C	-10°C to 140°C

SPELUB CL SERIES:

Series of fully formulated greases for lubrication of mechanical parts in centralized lubrication systems. Spelub CL Series have excellent tackiness and adhesion that creates a protective film on the parts. Spelub CL Series greases are ideal for telescoping movements, open & close gears, guide ways, high speed bearings and other mechanical parts that require protection against wear and tear. Spelub CL Series greases have good pumpability and flow.

Spelub CL Series is available with formulations of high grade mineral & synthetic oils with lithium, lithium complex, Aluminium complex, calcium complex soaps and in organic thickeners. Based on application details specific product can be suggested to meet end requirements.



SPELUB GWL-000:

Specially Designed for guide ways and other lateral moving parts lubricated by centralized system in CNC and other machines. Spelub GWL-000 have superior adhesion that provide smooth movement without stick slip.

	Spelub GWL-000
N.L.G.I. Grade	000
Penetration	Yellowish -Brown
Base Oil	Semi-Synthetic
Thickener	Complex
Operating Temperature	-20 °C to 120 °C

SPELUB ALC-2:

Greases for speciality and unique applications. Spelub ALC-2 is formulated with aluminium complex soap which has good low temperature properties and mechanical properties allowing for performance in wide range of temperatures.

	Spelub ALC-2
N.L.G.I. Grade	2
Penetration	265 to 295
Drop Point	>220 °C
Base Oil	High Grade Mineral Oil
Thickener	Aluminum Complex
Operating Temperature	-10 °C to 160 °C



SPELUB TEF-5:

Complex grease with polymeric solid lubricants that generate very low co-efficient of friction. Ideal for application in medium high temperature applications. Also compatible with seals and other materials.

SPELUB TEF-5(HT):

For lubrication of bearings & moving parts subject to high temperature applications. Formulated to have lower residues and high dropping point.

	Spelub TEF-5	Spelub TEF-5 (HT)
N.L.G.I. Grade	2	2
Penetration	265 to 295	265 to 295
Drop Point	>260 °C	>300 °C
Base Oil	High Grade Mineral Oil	
Solid Lubricants	PTFE	PTFE
Thickener	Complex soaps	In-organic
Operating Temperature	-10 °C to 180 °C	-10 °C to 250 °C



SPECIALITY AND HIGH PERFORMANCE GREASES

SPELUB RB2+ :

Designed for bearings operating under moderate to heavy load and speed. Spelub RB2+ is formulated with complex soaps that have good adhesion and mechanical stability. Spelub RB2+ is fortified with solid lubricants that enable its performance in high load condition.

SPELUB RB2+ (HV) :

High viscosity base oil with complex soaps and solid lubricants for extreme load operations.



	Spelub RB2+	Spelub RB2+ (HV)
N.L.G.I. Grade	2	3
Penetration	265 to 295	220 to 250
Appearance	Black	
Base Oil	High Grade Mineral Oil	
Thickener	Complex	
Drop Point	>260°C	>260°C
Operating Temperature	-10°C to 180°C	-10°C to 180°C
E.P. Properties	Good	Excellent
Water Resistance	Good	
Solid Lubricant	Present	

SPELUB LL/LF SERIES:

Lead free complex greases for high performance multiple applications. Spelub LL/LF provides optimum lubrication due to the presence of complex soaps, ester and high grade additives. Spelub LL/LF grease have higher drop points, better mechanical stability and lower oxidation. Spelub LL/LF is ideal for all purpose and speciality applications. Spelub LL/LF increases the life of parts and re-lubrication interval. Various applications from one lubricant lowers the inventory costs.

	Spelub LL/LF Series			
N.L.G.I. Grade	1	2	3	2 (M)
Penetration	310 to 340	265 to 295	220 to 250	265 to 295
Appearance	Blue	Blue	Blue	Black
Base Oil	Mineral Oil			
Thickener	Complex			
Drop Point	>260°C	>260°C	>260°C	>260°C
Operating Temperature	-10°C to 160°C	-10°C to 180°C	-10°C to 180°C	-10°C to 180°C
Solid Lubricants	-	-	-	Present



SPELUB WP2:

Lubricants for damp or water borne environments. Spelub WP2 possess excellent water resistance and protects the lubricated parts against rust, corrosion and other aggressive materials. It increases the overall performance and life of the lubricated parts.

SPELUB WPG:

Greases for mechanical parts subject to high loads and extreme moisture. Fortified with solid lubricants Spelub WPG lowers the amount and period for re-lubrication.

	Spelub WP2	Spelub WPG
N.L.G.I. Grade	2	2
Penetration	265 to 295	265 to 295
Appearance	Yellow	Greyish
Base Oil	High Grade Mineral Oil	
Thickener	Multiple soaps	
Drop Point	>180 °C	>180 °C
Operating Temperature	-20 °C to 140 °C	-20 °C to 160 °C
Solid Lubricants	-	Present

SPELUB PU:

Polyurea complex grease for extreme temperature applications. Spelub PU have unmatched mechanical stability than other thickeners. Spelub PU grease offer lubrication in moderate loads and high speeds with good water resistance. Enhanced with extreme pressure lubricants to increase load carrying capacity without decreasing mechanical stability of the grease. Spelub PU greases are ideal for high temperatures applications.



	Spelub PU-1	Spelub PU-2
N.L.G.I. Grade	1	2
Penetration	310 to 340	265 to 295
Appearance	Green	
Base Oil	Mineral Oil	
Thickener	Poly Urea	
Drop Point	> 230 °C	
Operating Temperature	-20 °C to 180 °C	-20 °C to 180 °C



SPELUB HT :

In organic thickened non melt grease formulated and enhanced with solid lubricants for extreme operating conditions. Spelub HT does not melt and leaves lower residues. Presence of solid lubricants increases the protection against wear and tear. Bearings and mechanical parts in high temperature zones like kiln, oven, furnaces are ideal applications of Spelub HT.

	Spelub HTR	Spelub HT-1	Spelub HT-2
N.L.G.I. Grade	2	1	2
Penetration	265 to 295	310 to 340	265 to 295
Appearance	Yellowish brown	Greyish	Greyish
Base Oil	High Grade Mineral Oil		
Drop Point	None		
Operating Temperature	-10°C to 220°C	-10°C to 220°C	-10°C to 220°C
Solid Lubricants	-	Present	Present

SPELUB LC PREMIUM :

Formulated with high viscosity base oils, anti-oxidants, E.P. additives and anti wear agents Spelub LC Premium complex greases increase the service life of the lubricated parts that are subjected to shock load condition. Spelub LC Premium lowers the maintenance cost and increases productivity.

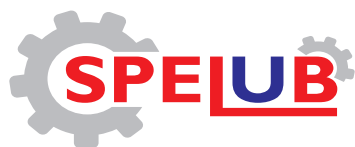
SPELUB LC/EM-2 :

Designed to perform, operate and lubricate in most demanding applications. Spelub LC/EM-2 provide protection of lubricated parts against dust, moisture and other contaminants. Spelub LC/EM-2 is ideal and most suitable for lubrication of construction, mining & earth moving equipments. Spelub LC/EM-2 is fortified with solid lubricants that even help in extending life of worn out parts.

	Spelub LC Premium		Spelub LC/EM-2
N.L.G.I. Grade	2	3	2
Penetration	265 to 295	220 to 250	265 to 295
Appearance	Yellow Brownish		Greyish-Black
Base Oil	High Grade Mineral Oil		
Thickener	Complex Soaps		Complex Soaps
Drop Point	>260°C		>260°C
Operating Temperature	-10°C to 180°C		-20°C to 180°C
Solid Lubricant	--		Present

SPELUB RBL Premium :

High Performance grease for lubrication of chisel in rock breakers, drill rod thread lubrication and other mechanical parts subject to extreme loads, shocks and vibrations. Spelub RBL Premium has range of solid lubricants that protect against scar, wear and tear with extended re-lubrication period.



SPELUB SCC-1000 :

Complex grease that gives outstanding lubrication in high loads and vibrations specifically in jaw crusher, impactor and vibro screens of quarries and mines. Spelub SCC-1000 is also ideal for mechanical parts subject to high oscillating movements. Spelub SCC-1000 contains solid lubricants for better lubrication and longer service life.

SPELUB HMP :

Complex grease with solid lubricants to provide better lubrication in moderately high temperature up to 200°C. Spelub HMP does not form gummy solid mass and reduce grease consumption in application like bearings in hot mix plant, chemical plants and other machineries carrying hot liquids.

	Spelub RBL Premium	Spelub SCC-1000	Spelub HMP
N.L.G.I. Grade	2	2	2
Penetration	265 to 295	265 to 295	265 to 295
Appearance	Metallic Copper	Greyish Black	
Base Oil	High Grade Mineral Oil		
Thickener	Complex Soaps		
Drop Point	>270°C	>260°C	>260°C
Operating Temperature	-20°C to 1100°C	-10°C to 180°C	-10°C to 200°C
Solid Lubricants	Copper & Others	Present	Present

SPELUB CS-2 :

For the most optimum performance in humid conditions Spelub CS-2 is formulated with calcium sulfonate thickener that has outstanding mechanical stability. Spelub CS-2 can perform under extreme load and high temperature for longer periods. Spelub CS-2 has peerless reversibility allowing to retain its original consistency. Spelub CS-2 lubricates and protects the part in most damp environments in industries like paper, steel, sugar, chemicals plant and like applications.

SPELUB CS-2 (M) :

Spelub CS-2 (M) has basic properties of Spelub CS2 and is enhanced with solid lubricants that significantly lower the friction between moving parts for easy movements. Increase the re-lubrication periods and service life of the lubricated parts.

	Spelub CS-2	Spelub CS-2 (M)
N.L.G.I. Grade	2	2
Penetration	265 to 295	265 to 295
Appearance	Yellowish Brown	Greyish
Base Oil	High Grade Mineral Oil	
Thickener	Calcium Sulfonate Complex	
Drop Point	> 280°C	> 280°C
Operating Temperature	-10°C to 240°C	-10°C to 240°C
Solid Lubricants	–	Present



SPELUB-HD (10M) :

Complex grease with 10% molybdenum disulfide and other solid lubricants. Spelub-HD (10M) is suitable for bush bearings in heavy loads, cams, shafts, sleeves, ball and pivot joints, splines thread joints and other similar applications.

SPELUB-HD (20M) :

Complex grease with high percentage solid lubricants and additive package for application in high loads and extreme frictions. Spelub HD (20M) can even extend the service life of worn out parts. Spelub HD (20M) is ideal for application of slow speed bearings , press fit, shafts, sleeves and bearings operating in heavy loads.

	Spelub HD (10 M)	Spelub HD (20 M)
N.L.G.I. Grade	2	2
Penetration	265 to 295	265 to 295
Appearance	Greyish Black	Greyish Black
Base Oil	High Grade Mineral Oil	
Thickener	Complex Soap	
Drop Point	> 260 °C	> 260 °C
Operating Temperature	-10 °C to 180 °C	-10 °C to 200 °C Up-to 900 °C as anti seize compound

SPELUB WRC :

Formulated from semi-synthetic base oils and solid lubricants Spelub WRC out performs conventional greases or other black greases. Increases the service life of wire ropes by protecting against corrosion and wear. Spelub WRC has excellent resistance to water and other humid contaminants. Wire ropes slings, drag line, elevator ropes ,crane ropes and tow line are ideal application of Spelub WRC.

SPELUB OGC-200 :

Formulated from semi-synthetic base oils and high percentage solid lubricants with excellent adhesion properties. Spelub OGC-200 has excellent resistance to damp conditions and can resist high loads. Spelub OGC-200 can be applied on all type of open gears, winch gears and wire ropes.

	Spelub WRC	Spelub OGC-200
N.L.G.I. Grade	1	0-1
Penetration	310 to 340	330 to 360
Appearance	Greyish Black	Greyish Black
Base Oil	Semi-Synthetic	Semi-Synthetic
Thickener	Complex	Complex
Drop Point	> 190 °C	> 200 °C
Operating Temperature	-20 °C to 150 °C	-20 °C to 150 °C
Solid Lubricants	10%	20% to 25%
Water resistance	Excellent	Excellent
Extreme Pressure Properties	Excellent	Excellent



SPELUB DMPG-2 :

Based on high viscosity oil for damping application in hinges, door locks, sliding application in railing to restrict speed, reduce noise and to provide long term lubrication. Spelub DMPG-2 has good water resistance.

	Spelub DMPG-2
N.L.G.I. Grade	3
Appearance	Light Yellow
Drop Point	None
Operating Temperature	-10°C to 180°C

LUBRICANTS FOR ELECTRICAL APPLICATIONS

Spelub-ECG Series contains various lubricants for electrical contacts and connectors.



SPELUB FPL-EC :

Fluro polymer base grease for lubrication of switch gears and MCB. Spelub FPL lubricants can provide extended service.

SPELUB SS/SI-HV-4 :

Silicone base compound for lubrication of piercing connectors/ Insulated connectors.

SPELUB SS/EC-40 :

Synthetic oil base non metal grease with solid lubricants for permanent lubrication of mechanical connectors.

SPELUB SS/EC-ZA :

Mineral oil free ester base conductive compound with high purity metal powders for electrical distribution bush bar.

SPELUB SS/EC-AN :

Mineral oil free ester base conductive compound with high purity nickel & others metal powders for battery terminals, circuit. Compound fills cavities and eliminates chances of air trap and thus provides constant contacts to prevent heating and carbon formation.



SYNTHETIC GREASES

SPELUB SG/PT (5) :

Synthetic in-organic thickener grease fortified with polymeric lubricants for low frictions and long term lubrication in medium to high temperature lubrication. Spelub SG/PT (5) is ideal for plastic to plastic and plastic to metal lubrication.

SPELUB SG/PT (10) :

Same as SG/PT (5) but with higher solid lubricants. Spelub SG/PT (10) can handle heavy load and extreme pressures.

	Spelub SG/PT (5)	Spelub SG/PT (10)
N.L.G.I. Grade	2	2
Penetration	265 to 295	
Appearance	White Beige	
Base Oil	Synthetic Oils	
Thickener	In-Organic	
Drop Point	None	
Operating Temperature	-20°C to 250°C	
Solid Lubricants	5%	10%

SPELUB SS/NM-180 :

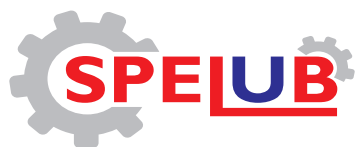
Non melt semi-synthetic oils base grease for wide temperature range. Spelub SS/NM-180 provides excellent lubrication with good low and high temperature properties . Spelub SS/NM-180 is ideal for wide temperature range.

SPELUB SG/NM-300 :

Fully synthetic non melt grease for high temperature, moderate loads and speeds. Spelub SG/NM-300 leaves low residue and provides a film of solid lubricants that protects part long after base oil has evaporated. Spelub SG/NM-300 also provides lubrication in very low temperature as well.



	Spelub SS/NM-180	Spelub SG/NM-300
N.L.G.I. Grade	2	2
Penetration	265 to 295	
Appearance	Greyish - Black	
Base Oil	Semi-Synthetic	Synthetic
Thickener	In-organic	
Drop Point	None	
Operating Temperature	-20°C to 240°C	-40°C to 250°C
Solid Lubricants	Present	



SPELUB SG/G-10 :

For applications in high temperature zones like furnace, kiln & oven bearings. Spelub SG/G-10 has excellent thermal conductivity and good load carrying capacity that protects the lubricated parts from wear and tear.

	Spelub SG/G-10
N.L.G.I. Grade	2
Penetration	265 to 295
Appearance	Greyish Black
Base Oil	Synthetic Oils
Thickener	In-organic
Drop Point	None
Operating Temperature	-40°C to 700°C
Solid Lubricants	10%

SPELUB HSG-15 :

With adhesion properties and low viscosity base oils Spelub HSG-15 is ideal for high speed bearings, spindles and etc. Has good water resistance and forms a film that inhibit rust and wear with excellent lubrication properties.

	Spelub HSG-15
N.L.G.I. Grade	2
Penetration	265 to 295
Appearance	Creamish Yellow
Base Oil	Synthetic Oils
Thickener	Complex
Drop Point	> 240°C
Operating Temperature	-40°C to 160°C

SPELUB SG/Premium Series :

With careful selections of base oil, thickener and additives Spelub SG/Premium greases can meet the requirement of most unique and demanding applications. Spelub SG/premium greases are available in various N.L.G.I. grade with base oil viscosity ranging from 30 CST to 400 CST. Typical applications like textile machineries, auto parts & auto ancillaries, bearing manufacturers & critical machineries.

	Spelub SG 30	Spelub SG 46	Spelub SG 150	Spelub SG/PU 100
Base Oil Viscosity	30	45	150	100
Thickener	Complex	Complex	Complex	Poly-urea
Operating Temp.	-40°C to 180°C	-40°C to 180°C	-40°C to 180°C	-40°C to 180°C
Applications	Auto parts and assemblies like rear view mirrors, side view mirrors, windows, seat assemblies, starters, wiper motors, dampers, hydraulic doors, head light assemblies, clutch release bearings, thrust bearings, brake assemblies, indicators and other applications where frequent lubrication is not possible.			

SPELUB SG/RES Series :

For lubrication of parts that are subjected to aggressive materials like acid, ammonia, high alkaline environments, polar and non-polar solvents or parts that are used in machinery that involve gases and other contaminants that degrade parts and machinery.



SILICONE COMPOUND AND GREASE

SPELUB-SI/M4 :

Medium consistency non-drip silicone compound based on silicone oil and In-organic thickener. Mold release application in rubber, plastic, ceramics, metal, shell casting, and epoxies are applications of Spelub SI/M4.

SPELUB-SI/HGVC :

Heavy-duty non-drip silicone compound based on high viscosity silicone oil and In-organic thickeners. Resist mild acidic and most chemicals. Vacuum systems in laboratory, glass, vessels, industrial stopcocks, “O” rings of chemical reaction vessels, control valves and pneumatic systems are major applications of Spelub SI/HGVC. It is also used in mold release for rotational molds.

SPELUB-SI/LCG :

Silicone oil base complex soap thickened grease for bearing lubrication in wide temperature range. Low pour point and good viscosity index allows for application in bearings in precision mechanism, freezing temperatures in ice cream and dairy, conveyors in cold conditions. Electric clock motors and instruments, electrical meters, plastic gears, bushes, metal to plastic or rubber, plastic to plastic lubrication and instrument operating in cold conditions.

SPELUB-SI/CB :

Silicone base oil thickened with carbon black for bearing running in high temperature zone. Spelub SI/CB is used in oven conveyor bearings, wheel bearings of core ovens and carts, ball and sprockets of power insulators, and ID fans.

SPELUB-SI/44 :

Silicone oil base complex soap thickened grease for bearing running in wide temperature range. Ball and roller bearings in wide temperatures, stenter and calendar in textiles, ice cream and chilling plants, bearings in oven, paint booth, bakery, fans, shipboards, steel plants, instruments, electric motor, wipers, meters are some of the basic applications of Spelub SI/44.

SPELUB-SI/44(M) :

Silicone oil base grease containing Molybdenum disulfide for long- life bearing lubrication in moderate speed and temperature. Same as Spelub SI/44 but has better lubrication and E.P. properties as it contains Molybdenum di-sulfide as solid lubricant.

	Spelub SI-M4	Spelub HGVC	Spelub SI/LCG	Spelub SI/CB	Spelub SI/44	Spelub SI/44(M)
N.L.G.I. Grade	2	3-4	2	2	2	2
Penetration	265 to 295	180 to 220	265 to 295	265 to 295	265 to 295	265 to 295
Appearance	Translucent	Translucent	Beige	Black	Orange	Greyish
BlackBase Oil	Polysiloxane	Polysiloxane	Polysiloxane	Polysiloxane	Polysiloxane	Polysiloxane
Thickener	Inorganic	Inorganic	Complex	Carbon	Complex	Complex
Solid Lubricants	--	--	--	–	–	Present
Operating Temp.	-40 °C to 240 °C	-40 °C to 200 °C	-30 °C to 190 °C	-40 °C to 250 °C	-30 °C to 190 °C	-30 °C to 240 °C
Drop Point	None	None	>260 °C	None	>260 °C	>280 °C



PFPE / PTFE BASED LUBRICANTS

SPELUB FPL SERIES:

Spelub FPL are fluoropolymer lubricants that have been developed after extensive research. Spelub FPL series have substantial rheological, chemical and tribological advantages over conventional lubricants. Spelub FPL lubricants can perform in most extreme environments. Spelub FPL lubricants are based on PFPE base oils and thickened with PTFE solids. Due to its non-reactivity Spelub FPL greases are highly compatible with plastics and other polymers.

SPELUB FPL-LT :

Spelub FPL-LT : Lubrication of parts in very low temperature conditions.

SPELUB FPL-MT :

Designed for moderate loads and extreme temperature.

SPELUB FPL-EP :

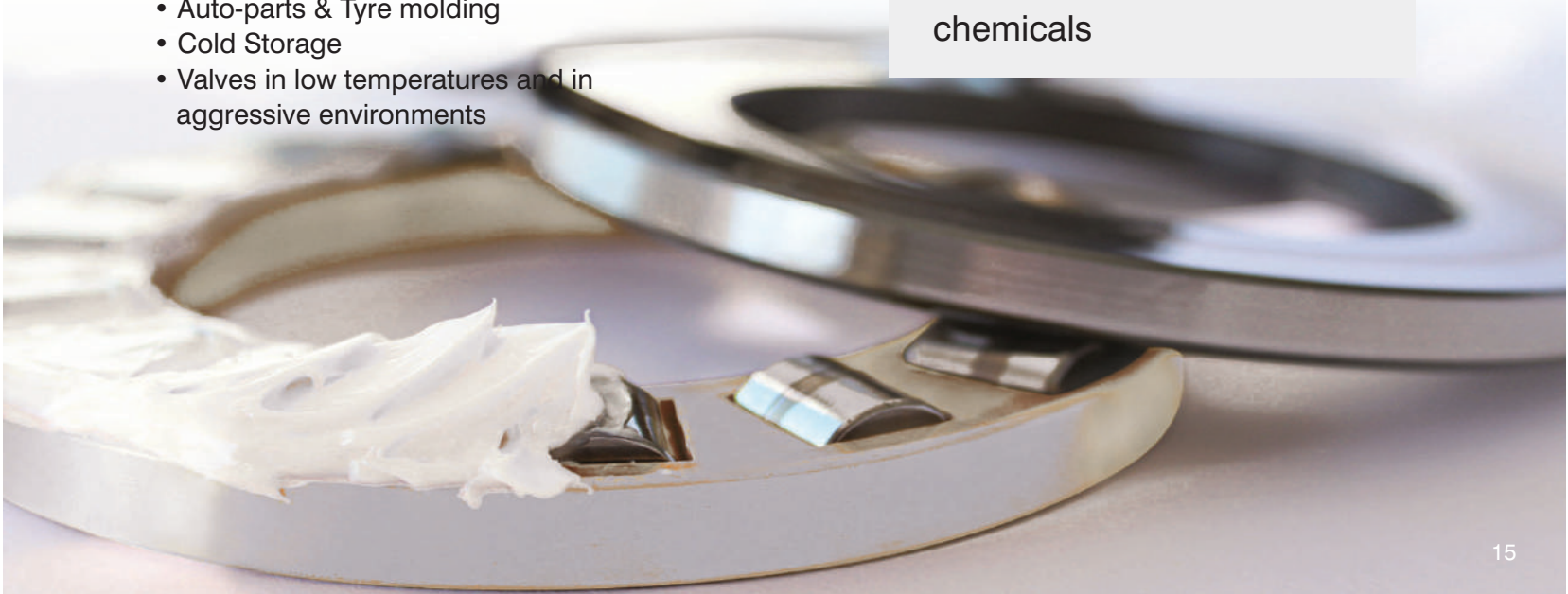
Grease have highest service life compared to any conventional lubricants.

GENERAL APPLICATIONS:

- Stenter Frames in Textile Industry
- Anti-lock Breaking Systems
- Vacuum Pump
- EGR Valves
- Reflow Oven
- Sealants for Sterilizing Equipment
- Automatic Corrugated Box Machine
- Laboratory Instruments.
- Medical Instruments
- Auto-parts & Tyre molding
- Cold Storage
- Valves in low temperatures and in aggressive environments

Advantages :

- Chemical Resistance
- Non Hazardous
- High Plastic Compatibility
- Extended Service Life.
- Extremely Low Pour Points
- Excellent Thermal Stability
- Very Low Residual Formation
- Di-Electric Properties
- Excellent inertness to most chemicals





SYNTHETIC GEAR AND COMPRESSOR OILS

SPELUB SYNGEAR:

Series of wide temperature range synthetic gear/circulating oils with good de-emulsifiability and range of anti-wear additives. Spelub Syngear increases the drainage intervals and the service life of the gear boxes, bearings and moving parts.

Spelub Syngear					
ISO Viscosity Grade	68	100	150	220	320
Viscosity CST	68± 5	100± 10	150± 10	220± 15	220± 20
Flash Point	>220 °C	>230 °C	>240 °C	>240 °C	>240 °C
Pour Point	-50 °C	-50 °C	-45 °C	-40 °C	-40 °C
Operating Temperature	-40 °C to 160 °C	-40 °C to 160 °C	-35 °C to 180 °C	-35 °C to 180 °C	-35 °C to 180 °C

SPELUB SYNCOMP:

Series of wide temperature range synthetic compressor oils. Spelub Syncomp increases the efficiency reduces wear and tear, resists water contamination, heat and oxidation with longer service life. Can be use for rotary, reciprocating and screw compressors.

Spelub Syncomp					
ISO Viscosity Grade	46	68	100	150	220
Viscosity CST	46± 5	68± 5	100± 10	150± 10	220± 15
Flash Point (Open cup)	>200 °C	>220 °C	>230 °C	>240 °C	>240 °C
Pour Point	-50 °C	-50 °C	-45 °C	-40 °C	-40 °C
Operating Temperature	-40 °C to 160 °C	-40 °C to 160 °C	-40 °C to 180 °C	-35 °C to 180 °C	-35 °C to 180 °C

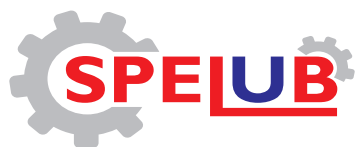
SPELUB SYN-PG :

Synthetic gear Oil based on high viscosity index polyglycols. Provides good lubrication properties and can perform in very low temperature conditions.

Spelub Syn-PG					
ISO Viscosity Grade	68	100	150	220	320
Viscosity index	170	190	210	225	240
Flash Point	>200 °C	>220 °C	>230 °C	>240 °C	>240 °C
Pour Point	-45 °C	-45 °C	-40 °C	-40 °C	-40 °C
Operating Temperature	-30 °C to 160 °C	-30 °C to 160 °C	-30 °C to 180 °C	-30 °C to 180 °C	-30 °C to 180 °C

SPELUB SYNCOM-K :

Series of Semi-Synthetic compressor oils. Spelub Syncom-K are highly economical with good lubricating properties. Spelub SYNCOM-K are available in ISO viscosity grades of 32 to 220.



SYNTHETIC CHAIN LUBRICANTS

SPELUB-CH-200 :

Combination of synthetic esters that provide lubrication and protection of chains. Spelub CH-200 is ideal for moderate to high temperatures. Spelub CH-200 reduces energy consumption and downtime. Spelub CH-200 is used in stenter chains, kiln chains, oven chains located in ceramic, bakery and cement industries.

SPELUB-CH-220 :

High performance chain oil for extreme temperature applications. Spelub CH-220 has very low evaporation loss and higher flash points. Spelub CH-220 has excellent resistance to water, special additive package reacts and penetrates deep with in metal parts like linkages and sprockets for maximum lubrication and protection. Spelub CH-220 is used in ceramic industries, cement, bakery and on chains located in damp environments.

SPELUB-CH-220(G) :

Fully synthetic chain oil fortified with graphite & other solid lubricants for high load carrying capacity chains. Spelub CH-220 (G) forms a film of solid lubricants on chains and metal for protection in very high temperature zones. Ideal for chains subjected to high temperature and loads.



SPELUB-CH-220(M) :

Fully synthetic chain oil fortified with MoS₂ & other solid lubricants for high load carrying capacity chains. Spelub CH-220 (M) forms a film of solid lubricants on chains and metal for protection in high temperature zones. Ideal for chains subjected to high temperature and loads.

	Spelub CH-200	Spelub CH-220	Spelub CH-220(G)	Spelub CH-220(M)
Appearance	Light Yellow	Light Yellow	Black	Grey Black
Pour Point	-40 °C	-40 °C	-40 °C	-40 °C
Flash Point	> 265 °C	> 280 °C	> 280 °C	> 280 °C
Evaporation loss @210 °C for 4 hours	< 4%	< 3%	< 3%	< 3%
Copper Corrosion	< 1a	< 1a	< 1a	< 1a
Viscosity	200 to 220	Approx 220	Apporx 220	Apporx 220
Solid Lubricants	-	-	Graphite	MoS ₂
Operating Temp.	-30 °C to 220 °C	-30 °C to 240 °C	-30 °C to 700 °C	-30 °C to 450 °C

Note :- Spelub chain oils are also available in different ISO viscosity grades as per requirements.



POWDER AND ANTI-SEIZE COMPOUNDS

SPELUB CF-Z :

Molybdenum disulfide powder with extremely low coefficient of friction. Spelub CF-Z is highly resistant to water, solvents, acids and alkaline. It is primarily used in cold forging applications and as an anti-seize coating on nut, bolts and sliding applications.

SPELUB AZ/GP :

Anti-seize thread lubricant with high percentage of solid lubricants in high grade mineral oil. As lubricant for heavy loads and slow speed. As anti-seize for nut/bolts/studs to prevent galling, seizing, fretting, corrosion or welding of metallic surface in power / steel / Fertilizers / petrochemicals etc.

SPELUB AZ/GN :

Anti-seize thread lubricant with high percentage solid lubricants in semi-synthetic oil. For easy assembly and dismantling operations, press fit operation, impact extrusion etc. As anti-seize in turbine fasteners and other similar applications.

SPELUB AZ/SI :

Anti-seize compound with high percentage solid lubricants in silicone oil. Spelub AZ/SI is primarily for environments with high oxygen contents like in oxygen plant in steel plant.

SPELUB AZ/1000 :

Universal assembly paste formulated from selective solid lubricants and powders for wide temperature range up to 1200°C. Spelub AZ/1000 is highly resistant to moisture making it ideal for applications where parts are subjected to damp conditions. As anti-seize thread compound for nut/bolt/studs, valves etc in plastic machinery, refineries, power plants, chemical plants and steam lines.

SPELUB AZ/CU :

Copper based anti-seize compound with mineral oil carrier. Spelub AZ/CU is used as ASTL on nut, bolts, studs, gaskets and flanges. Spelub AZ/CU has excellent protection against formation of rust and corrosion even at high temperatures and damp environments. As lubricant in cement plant for kiln tyre, in ceramic for kiln car and trolley bearings.

SPELUB AZ/NR :

Anti-seize compound based on nickel, copper, graphite and other fine metals. Spelub AZ/NR has good resistance against acidic and alkaline conditions.

SPELUB AZ/NS:

Anti-seize compound based on nickel in synthetic carrier for high temperature application. Spelub AZ/NS can be used as lubricant in valve applications and anti-seize in atomic power plant, heavy water project, steel and fertilizer plant etc.

SPELUB AZ/ZL :

High concentrations of zinc powder in mineral oil for applications as anti-seize compound in drill collar and pipes, tool joints, bits sub, rock bits in oil drilling.

SPELUB AZ/TC :

High concentration paste of metallic powders in mineral oil carrier for use as an anti-seize thread compound in casings and line pipes in oil drilling.





AEROSOLS

SPELUB ZnG:

A cold zinc galvanizing coating with synthetic resin that forms a protective film on the metal surface. It prevents rust and corrosion of ferrous and non-ferrous metals in chemical plants, hostile environments, coastal & marine, welded surfaces and for fabricated steel structure.

SPELUB AFC-75:

An excellent resin bonded MoS₂ base anti friction coating for moving parts. Spelub AFC-75 has very low coefficient of friction that allows easy movements. Spelub AFC-75 works in wide temperature range from -75 to 375 . Ideal for dusty and dirty environment, sliding surfaces, chains, sleeves, gears, tool coatings etc. Can be used for cold extrusion on die and molds.

SPELUB ECC:

Fast evaporating cleaner in aerosol for electrical / electronic contacts. It removes unwanted residues like carbon, grease / oil easily and displace water. Available as for both online and off line applications.

SPELUB SI/RL:

Silicone mold release spray primarily for plastic molding operations.

SPELUB AS/RL:

Solvent base rust remover and cleaner. Spelub AS/RL removes hardest of rust and cleans the metal surfaces. Spelub AS/RL helps in easy removal of studs, nut and bolts, valves, dies, chains, mechanism and assemblies. It is an ideal tool for maintenance floors.



SPELUB GS-65:

Resin bonded graphite for dry lubricating film. Spelub GS-65 forms a very hard film that has very low coefficient of friction. Spelub GS-65 is ideal for application as anti-friction coatings, conductive applications release agents and in sintering process for diamond tool industries.

EXELFORGE

FORGING LUBRICANTS

Exelforge is a line of premium forging lubricants based on solid lubricants dispersed in oil and water. Exelforge increases die life, provide better releasing properties and superior surface finish of forged components. Exelforge lubricants can be used in the forging of crankshafts, axles, bevel gears and other automotive and engineering components. Formulated with esters and selected solid lubricants Exelforge has high lubricity properties.

EXELFORGE WGF:

Micron size graphite dispersed in water for low to moderate metal forging applications. Exelforge WGF is ideal even for hammer forging and small extrusions.

EXELFORGE HFL-100 PREMIUM:

Micronized graphite combined with lamellar solid lubricants Exelforge HFL-100 Premium provides good lubricity and releasing properties. Moderate to heavy-duty forgings like deep cavity jobs and large forging components.

EXELFORGE EXT-50:

High solid lubricants based compound that form a stable film on hot surfaces. Exelforge EXT-50 is specifically for mandrel and rolling applications in carbon steel tubes. Can also used for extrusion jobs in forging applications.

EXELFORGE CF-40:

Combination of lamellar solid dispersed in water for demanding application of cold forging/extrusion. Exelforge CF-40 forms a reactive film on the components for easy metal flow and formation. Can be used for all type of components in cold forging. Cost effective and better performance.

EXELFORGE HFL-30:

Optimum forging lubricant based on micron size solid lubricants & is ideal for moderate forging and extrusions. Extreme pressure additives and ester provide good releasing properties.

EXELFORGE GLF-22:

Graphite less polymer base forging lubricant for moderate extrusion and forging applications. Exelforge GLF-22 helps in keeping cleaner work-environments. Ideal for smaller components with better forging quality.

EXELFORGE SFO:

Graphite dispersed in mineral oil for difficult extrusions and forging like shell forging. Provides excellent lubricity to decrease the rejection ratio and increases the die life and production.

EXELFORGE OGE-30:

High percentage, high purity micronized graphite dispersed in high flash base oil and ester for complex jobs in extrusion and deep cavity jobs. Can be used for various metals like steel, aluminum, copper etc.





GRAFO COAT

DIE CASTING LUBRICANTS

GRAFOCOAT-GBPL :

Plunger lubricant for manual and automatic plunger lubrication systems based on semi synthetic oils, micro fine Graphite and additives. It forms a tenacious film, which prevents metal-to-metal contact and increase life of plunger by 2 to 3 fold. The fine Particle size and high purity Graphite does not settle for longer period, eliminates problem of choking of capillary tubes and improper lubrication of plunger.



GRAFOCOAT-GLP :

Semi synthetic solid free plunger lubricant for manual and automatic plunger lubrication systems. Longer plunger life due to specific base oil having good lubrication properties and lower residues. Forms a coating that minimizes wear and tear of plunger. No settling problems in absence of solid lubricants. Clean working conditions reduce pollution problems.

GRAFOCOAT-DC-100:

Water miscible die release agent for aluminum pressure die-casting operations. Provides excellent release with bright surface finish. Grafocoat-DC-100 is highly economical. Better parting and bright surface can be achieved in simple and complex molds.

GRAFOCOAT DC-300

Water miscible die release agent for Aluminum pressure die-casting. It provides excellent release for complex molds with bright surface finish. It is a balance formula of synthetic lubricants and additives. Better parting and bright surface can be achieved in complex molds. The additives also lubricates ejector pins and moving parts effectively to reduce wear and tear. Grafocoat DC-300 can be used in automatic and hand spray guns effectively. The dilution ratio can be up to 200 depending upon severity of mold.

COLLOIDAL GRAPHITE IN WATER

GRAFOCOAT-WG :

Grafocoat-WG is a stable dispersion of ultra fine and high purity Graphite in water. Grafocoat-WG is used in piercing and extrusion of tubes/bar/rod of M.S./carbon steel/ stainless to minimize wear and tear.

GRAFOCOAT-WGS (40) :

A premium quality stable dispersion of Graphite in water. High purity ultra fine natural Graphite gives excellent lubrication and higher conductivity. It is used as a bearing lubricant in bakery/furnace/ovens and as additive in PTFE products for coating purpose.

GRAFOCOAT-WGS 40(N) :

Water base graphite with high strength film for protection of parts in extreme temperature applications. Grafocoat WGS-40 (N) is specifically designed for metalizing chamber coating in metalizing plants, chain and conveyor coating near IS machines and lehr in glass industries and metal forming.

MAGICUT

HIGH PERFORMANCE METAL WORKING FLUIDS

MAGICUT B : All-purpose water soluble cutting oil for multiple machining applications. Magicut B has higher mineral oil content that provide lubricity with increased tool life. It has higher sump life and lower addition than conventional products as manufactured with high grade mineral oil and balanced emulsifiers. Magicut B is ideal for general machining operations and can be used for most metals.

MAGICUT B/S : Hard water stable high mineral oil content general purpose machining coolant. Special additives and combination of esters ensure that Magicut B/S remains stable while having good tramp oil rejection. Magicut B/S can be used in general machining. It is also ideal for rolling of alloy and stainless sheet/rolls. Impart good extreme pressure properties.

MAGICUT SYNTH-X-90 : An excellent semi-synthetic coolant for machining of alloy and stainless steel in CNC machines. Formulated with optimum levels of esters, biocide and balanced mineral oil Magicut Synth-X-90 gives high cooling efficiency and lubricity that increases tool life and production. Magicut Synth-X-90 has sump life of over 6 to 8 months.

MAGICUT SS-39 : With high performance polymeric esters Magicut SS-39 is an excellent all-round coolant. With multiple metal compatibility Magicut SS-39 can provide cooling and lubricity in any severe machining. Magicut SS-39 has very low foam tendency making it an ideal choice for through coolant machines. Magicut SS-39 has sump life of 8 to 12 months and with excellent tool life. Magicut SS-39 is free of chlorine, sulfur, phosphates and nitrites making it highly environmental friendly lubricant.

MAGICUT SS-39/NF : Polymeric ester base semi synthetic coolant specifically designed for operations of yellow metals. It inhibits degradation and oxide formation on metal surfaces after machining. Component has better surface finish.

MAGICUT SYNTH-X-AL : Semi synthetic coolant for aluminum machining keeps the work area and machine clean. Significantly lowers the rate of oxidation of aluminum metal. Can also be used for other metals also.

MAGICUT SL : High performance heavy duty neat oil for heavy duty applications like threading, tapping and other most difficult machining operations. It has extreme pressure additives for better lubricity. Magicut SL is compatible for range of metals. Ideal for any machining work shop for hard to machine alloy and all type of stainless steel.

MAGICUT SL/D 22 : Neat machining fluid with 22 CST for moderate to heavy duty operations of hard metals. Magicut SL/D 22 is suitable for hobbing, cutting, drilling, threading and tapping operations.

MAGICUT SL/D : Specially formulated and designed neat oil to provide excellent lubrication in heavy duty machining operations of stainless steel and hard alloy metal. Magicut SL/D can be used in gear hobbing, broaching, thread cutting, drilling and tapping.

MAGICUT GD-12 : Formulated with low viscosity oil that has good viscosity index. Magicut GD-12 has an advanced additive package to give extreme pressure properties and optimum lubrication for critical applications of gun drilling and deep hole drilling.

MAGICUT H-11 : Low viscosity lubricant for honing applications. Magicut H-11 has lower evaporating rate and better cooling efficiency. Anti-Mist properties keep the work area clean and safer.

MAGICUT GRND : Very low viscosity neat metal working fluid for grinding and machining applications of various metals. Magicut GRND is available in multiple ISO viscosity grades as 5 and 10 CST.



DRAWING LUBRICANTS

EZYDRAW-818(WS)

Cold water washable compound for bead hammering/crushing operation on tube mill as mandrel lubrication in S.S./alloy tube welding operation. Ezydraw-818 (WS) can also be used for shrinking of stainless steel tubes on draw bench without pre-coating and thus process becomes easy, economical and time saving. The product is easily water washable after operation, helps in minimizing the problem of cleaning of tubes particularly inside walls.

EZYDRAW-J2:

A tailor-made compound for cold drawing operation of stainless steel Tubes/Wires/bars. Pre-coating is not required so process becomes easy, economical and time saving. Ezydraw-J2 does not contain sulphur or phosphorous. Ezydraw-J2 is ideal for bright annealing process of S.S. tubes with proper cleaning. The unmatched lubricant values, adhesion and E.P. properties results in easy drawing with minimum rejection and breakage. Can be used for capillary tubes, big diameter S.S. tubes and Nickel Alloy Wires. *Note: Various grades are available as per requirement of metal, equipment, speed and suggestion of equipment manufacture.*

EZYDRAW-P:

Ezydraw-P is a compound for cold Pilgering of stainless steel tubes. Besides other E.P. agents active sulphur is present in Ezydraw-P. It maintains tenacious film tightly adhering to surface that helps in easy operation without jerking, lines or score marks. Improved surface finish and die/mandrel life with effective heat dissipation. Better oxidation resistance keeps oil flow ability for longer period.

EZYDRAW PT :

Ezydraw-PT is high viscosity compound for lubrication of mandrel & inside tubes in pilgering operation of stainless steel tube. Besides other E.P. agents, active sulphur is present in Ezydraw-PT to maximize its lubrication value proprietary additives are added.

EZYROL-M :

Rolling oil for cold rolling of S.S. and carbon steel sheet in all type of rolling mills. The selective oil is treated to give minimum carbon residue which makes the product stain free and gives better surface finish. The additives package contains esters, E.P. and tackiness additives. Better film forming properties results in less wear and higher production rate. It replaces soluble rolling oils in sheet rolling. Reduces cost, consumption and labour.

EZYROL-L :

Light viscosity base oil and with higher active additives for final finish of stainless steel and carbon steel sheet rolling. Improves surface finish and reduces stains to give better surface finish in final rolling operation. Higher reduction per passes results in higher production rate.

EZYROL-AL/HR :

A premium quality semi synthetic soluble hot rolling oil for aluminum rolling operation. Offers sump life of Three months and more in ideal conditions. Excellent surface finish and stain free due to proprietary additive package. Reduces consumption against mineral base cutting oil generally used as aluminum rolling oil. The impurities/oxides floats on the emulsion and can be easily removed so improved roll and bearings life can be achieved. Lower operating load on rolling mill results in power and energy saving.



Degriz

INDUSTRIAL CLEANER

DEGRIZ CI :

Neutral water based cleaner for cleaning of machines parts and equipment made of cast iron , mild steel or stainless steels.

DEGRIZ SS/79 F :

Alkaline powder based cleaner and acid neutralizer for use in fastener manufacturing industries. Degriz SS/79F is compatible with range of stainless steel alloys.

DEGRIZ AL :

Neutral water based cleaner for aluminum parts. Removes dust and other contaminates from metal surfaces, while inhibiting oxide formation on aluminum parts.

DEGRIZ NF :

Designed with care special additives for cleaning of yellow metals. Inhibits oxide formation and metal degradations.

DEGRIZ SS/SA-90 :

Environmentally safe and easy handling acid based cleaner with excellent wetting and cleaning properties. Raw materials used are highly environmental friendly and also the users.

SOLUCLEAN 40 :

Low flash fast evaporating safe solvent based cleaner that easily removes any oily residues. Removes moisture and water from the metal surfaces as well.

SOLUCLEAN 60 :

Higher flash point quick evaporating safe solvent based cleaner that is easy to handle .Soluclean -60 is user friendly and safe for environment and users.





Cor-Pre

RUST PREVENTIVES

COR-PRE P-21:

Solvent type wax based long term rust preventive ideal for long term rust protection specifically for export components. Can work as light lubricant in press fit operations.

COR-PRE P:

Wax based rust preventive for moderate period rust protection.

COR-PRE O:

Oily film forming rust preventive for moderate to long-term protection.

COR-PRE DW-91:

Dewatering fluid for in process rust protection and cleaning. Cor-Pre DW-91 penetrates deep with in the metal surfaces and cleans the components of any unwanted residue and moisture.

COR-PRE P-21(A):

Aerosol based rust preventive for large components that cannot be dipped or parts that are hard to reach like die/molds of press shop and plastic molding and machines.

COR-PRE PO-41:

Oil and wax based Rust preventive for moderate to long-term protection.

COR-PRE RP/GL 50+:

Forms a dark thick film that provides most optimum protection. Cor-Pre RP/GL 50+ can easily be applied on large components by brushing and provides protection up-to 8 to 12 months.

COR-PRE RP/WB:

Water-soluble rust preventive for very short terms for intermittent process. Cor-Pre RP/WB is ideal for components stored inside, that require protection while waiting for further processing.

COR-PRE CI/P :

Water based product that protects the parts against corrosion. Cor-Pre CI/P is specially designed for water filled submersible pump testing and filling. Prevents corrosion of the inner pump parts.



LUBGRAF SYNILS PRIVATE LIMITED
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