

WWW.UNIL.COM

GREASES



LIQUID TECHNOLOGY

COMPOSITION OF GREASES

Oil	Thickening agent	Additives
75% to 90%	5% to 20%	0 to 10%
	Simple soap <i>(Lithium, calcium, aluminium, etc.)</i> Mixed soap <i>(Lithium-calcium, calcium-lithium)</i> Complex soap <i>(Lithium, calcium, aluminium)</i> Inorganic <i>(Bentonite, graphite, etc.)</i> Polyurea	Anti-oxidation Anti-rust Anti-wear Extreme pressure (EP) Friction-reducing additive Metal powders Colourants



OVERVIEW OF GREASES MANUFACTURED BY UNIL LUBRICANTS

			00	0	1	2	3	4
Thickening agent	Simple soap	Ca			Compound			
		Calcium sulphonate						
		Li	Grease EP/R	Grease EP/R	Grease EP/R	Grease EP/R	Grease EP/R Molit EP 2	
	Mixed soap	Li-Ca		Caliopal		Caliopal Supergrease 200 Supergrease 350		
		Ca-Na						
	Complex soap	Aluminium complex				Grease AL/TF 2 ESCA Grease P AL		
		Calcium sulphonate				ESCA Grease CA 2 400		
		Calcium complex				Polyfood		
		Lithium complex				Alba + Thermoplex		
	Non-soap	Bentonite				Grease HT 300 Copper Anti-Seize Alimenta		
		Polyurea				Polygrease		

Name of product	Applications	Composition				Characteristics						
		Thickening agent		Base oil		Colour	Consistency	Temperature	Mechanical stability	Resistance to water	Extreme pressure capacity	Corrosion resistance
		Soap base	Thaw point (°C)	Nature	Viscosity (cSt at 40°C)							

GENERAL LUBRICATION

Grease EP/R	All-round, extreme pressure grease, ideal for standardising multiple lubrication applications.	Lithium	160	Mineral	60	Amber	00	-30/+120	XX	XX	XX	XX
			160		64		0	-30/+120	XX	XX	XX	XX
			190		130		1	-20/+130	XX	XX	XX	XX
			190		120		2	-20/+130	XX	XX	XX	XX
			190		130		3	-20/+130	XX	XX	XX	XX
Supergrease 200 Supergrease 350	Multi-purpose, highly adherent, and water resistant. Can withstand high pressures, and temperature variations. This grease is widely used in industry and in public works.	Lithium-Calcium	180	Mineral	310	Green Blue	2	-20/+140	XXX	XXX	XXX	XXX
					400			-20/+120	XXX	XXX	XXX	XXX
Caliopal	Ultra-pressure grease for plain bearings, slow-rotating roller bearings (500 - 750 r/min) and other components with heavy loads. This grease has an exceptional longevity.	Lithium-Calcium	180	Mineral	465	Brown	0	-20/+120	XXX	XXX	XXX	XX
					420				2	XXX	XXX	XXX

Name of product	Applications	Composition				Characteristics						
		Thickening agent		Base oil		Colour	Consistency	Temperature	Mechanical stability	Resistance to water	Extreme pressure capacity	Corrosion resistance
		Soap base	Thaw point (°C)	Nature	Viscosity (cSt at 40°C)							

GENERAL LUBRICATION

Grease 182 DS	Ideal general lubricating grease for lubricating components with a moderate load, such as articulations, bearings, shafts, pumps, cardan shafts, etc. Excellent bonding capacity and good lubricating effect. Easy to pump with various pressurised lubricating devices.	Lithium	190	Mineral	120	Yellow/beige	2	-20/+140	XX	X	XX	XX
Synbio Grease	Biodegradable grease based on plant oils and synthetic esters. Suitable for the lubrication of cardan shafts, axles, couplings, bearings in hydraulic systems and chains that come into contact with water. This environmentally friendly lubricating grease is recommended for lubrication in the agriculture and forestry, and industrial sectors.	Lithium-Calcium	160	Synthetic	100	green	2	-20/+100	XX	XXX	XX	XXX
Grease Ultra	Multi-purpose grease for general usage. This spray is ideal for lubricating areas that are difficult to access and for machine components such as cables, springs, hinges, guideways, etc.	Lithium	190	Mineral	180	Yellow	2	-20/+140	XX	XXX	XX	XXX

Name of product	Applications	Composition				Characteristics						
		Thickening agent		Base oil		Colour	Consistency	Temperature	Mechanical stability	Resistance to water	Extreme pressure capacity	Corrosion resistance
		Soap base	Thaw point (°C)	Nature	Viscosity (cSt at 40°C)							

LONG-TERM LUBRICATION

Alba +	Grease based on PTFE, intended for bearings subjected to heavy loads (limit lubrication) and telescopic guideways.	Lithium complex	270	Mineral	210	White	2	-30/+140	XXX	X	XXX	XX
Thermoplex	Universal grease for demanding applications involving articulations, plain bearings and roller bearings that are subjected to heavy loads. Ideal for wheel bearings on lorries and systems with central lubrication.	Lithium complex	250	Mineral	210	Green	2	-30/+150	XXX	XX	XX	XXX
Polygrease	Polygrease is a high-tech grease with a polyurea thickener and a fully synthetic base oil. It is used for a long lubrication interval for bearings at both extremely low and extremely high temperatures.	Polyurea	240	Synthetic ester	100	Pale yellow	2	-40/+180	XXX	XXX	XXX	XXX
Synthebis	Lubricating grease with exceptionally high stability and excellent water resistance. The additive package based on bismuth technology was specially developed to deliver top performance under extremely demanding conditions.	Lithium complex	>270	Semi-synthetic	560	Orange	2	-20/+140 (peaks up to +220)	XXX	XXX	XXX	XXX

Name of product	Applications	Composition				Characteristics						
		Thickening agent		Base oil		Colour	Consistency	Temperature	Mechanical stability	Resistance to water	Extreme pressure capacity	Corrosion resistance
		Soap base	Thaw point (°C)	Nature	Viscosity (cSt at 40°C)							

LUBRICATION FOR SPECIFIC APPLICATIONS

Molith EP	Grease with molybdenum disulphide and graphite for machine parts that are consistently subjected to heavy loads and/or shocks (earth moving and industrial applications)	Lithium	190	Mineral	95	Black	2	-20/+140	XX	XX	XXX	XX
Grease HT 300	Grease based on graphite for loaded bearings subjected to high temperatures (200 to 300°C).	Bentonite (non-soap)	None	Mineral	460	Black	2	-15/+300	XXX	X	XXX	XX
Copper Anti-Seize	Organo-metal complex with an extremely wide range of potential applications. Lubricant and anti-grip agent for components that are subjected to exceptional pressures or high temperatures.	Copper (non-soap)	None	Mineral	100	Copper	2	-20/+200	XX	XX	XX	XX
Compound	Calcium grease, highly adhesive, and particularly suitable for the lubrication of axles and articulations.	Calcium	95	Mineral	100	Green	1	-20/+60	XX	XXX	XX	XX
Walzerit 3V 3	Special grease with a remarkable shear resistance and resistance to water wash. It has a high lubricating capacity and is highly adhesive.	12-lithium hydroxy stearate	185	Mineral	120	Yellow	2-3	-25/+140	XXX	XXX	XXX	XXX
Zahlit LM 22 Zahlit O Zahlit DL 14	Fractions of crude oil that separate due to their exceptional bonding strength and their EP properties arising from their inherent, naturally bonded sulphur. These oils are resistant to water wash.	/	None	n.a.	325 1550 4300	Grey	n.a.	n.a.	XXX	XXX	XXX	XX

Name of product	Applications	Composition				Characteristics						
		Thickening agent		Base oil		Colour	Consistency	Temperature	Mechanical stability	Resistance to water	Extreme pressure capacity	Corrosion resistance
		Soap base	Thaw point (°C)	Nature	Viscosity (cSt at 40°C)							

LUBRICATION FOR THE FOOD INDUSTRY

Polyfood	Food grade grease based on white oil. Ideal for the lubrication of bearings and guideways in ovens, conveyor belts, etc., where occasional contact with food products may occur.	Calcium complex	200 265	White mineral oil	180	White/ivory	00 2	-20/+150	XX	XXX	XX	XXX
Alimenta	Bentonite-based grease. Designed for the food industry where there may be occasional contact with food products.	Bentonite	None	White mineral oil	80	Transparent	2	-20/+200	XX	XX	XX	XX
Grease AL TF 2	GREASE AL TF is a widely deployable aluminium complex grease with exceptional anti-wear and anti-corrosion properties.	Aluminium complex	230	White mineral oil	180	White	2	-15/+120	XX	X	X	XX
ESCA Grease P AL	ESCA Grease P AL is designed for a wide range of applications, including extreme temperatures, wet or saturated environments, heavy-duty applications and for places where dust or other contaminants are present. With Teflon and NSF H1 approved.	Aluminium complex	>250	PAO	100	White	2	-40/+180	XXX	X	XX	XX

Name of product	Applications	Composition				Characteristics						
		Thickening agent		Base oil		Colour	Consistency	Temperature	Mechanical stability	Resistance to water	Extreme pressure capacity	Corrosion resistance
		Soap base	Thaw point (°C)	Nature	Viscosity (cSt at 40°C)							

LUBRICATION FOR THE FOOD INDUSTRY

ESCA Grease CA 2 400	Calcium sulphonate grease based on PAO. This grease has excellent resistance to corrosion and is extremely water resistant. Suitable for occasional contact with food products.	Calcium sulphonate	>250	PAO	400	Beige	2	-30/+175	XXX	XX	XXX	XXX
ESCA Food Grease	White, multi-purpose grease in spray form. Suitable for the lubrication of chains, guideways, hinges, various articulations, and anywhere that there is a possibility of occasional contact with the food chain.	Aluminium complex	240	White mineral oil	140	White	2	-20/+120	XX	XX	XX	XX
Grease VA	Vaseline grease that meets the various European directives for pharmacies. It is particularly recommended for the lubrication of various types of equipment that comes into contact with food products, and where pharmaceutical petroleum jelly is required.	Vaseline (non-soap)	52-59	Vaseline	n.a.	White	4	-10/+ 50	XX	XXX	X	XX

QUALITY GUARANTEE

Unil Lubricants works on an exclusive basis with an extensive and high-performance laboratory. This laboratory is also commercially active in the field of condition monitoring. In this way, we can also offer solutions through proactive maintenance that can drastically extend the lifespan of your machine.

Various quality controls

All Unil lubricants are subjected to extensive quality controls both before, during and after production. The production manager takes a sample of the delivered product upon receipt of the base oils and other raw materials. The raw materials are only accepted and taken into production if they comply with all the predefined specifications.

After the production of a certain product, a sample is taken from the production tank. This sample undergoes a similar number of tests as the first sample, where it is checked for viscosity at 40° C and 100° C, colour, viscosity index, but also for water content and content of phosphorus, zinc, magnesium, calcium and sulphur. In addition, additional critical tests may be imposed on products developed for specific applications.

After filling the products in smaller packages such as an IBC or a barrel, a third sample is taken. This sample undergoes the previous tests again to make sure that the quality from raw material to finished product is maintained.

Extra service

Customers of Unil Lubricants can also make use of the expertise of the laboratory services. By performing regular analyses, you will be able to carry out proactive maintenance. A proactive maintenance method focuses on the causes of machine wear and tear and defects. This strategy allows considerable savings in terms of machine maintenance, since it is possible to intervene before an issue or defect in the machine is visible. In this way, we can extend the service life of mechanical machines by up to 20%.

This not only ensures that you get the best product for your machine, but also that your machine can continue to run undisturbed with the best care.

If you would like to know more about our lab activities and its analyses, please contact your representative.



LEGEND:																
	COMPATIBLE	BORDERLINE COMPATIBLE	INCOMPATIBLE	Aluminium Complex	Barium	Calcium	Calcium 12-Hydroxy	Calcium Complex	Clay (Bentone)	Lithium	Lithium 12-Hydroxy	Lithium Complex	Polyurea*	Sodium	Calcium Sulphonate	Silica
Aluminium Complex	COMPATIBLE	BORDERLINE COMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	COMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	COMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	COMPATIBLE
Barium	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	COMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	COMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	BORDERLINE COMPATIBLE	COMPATIBLE
Calcium	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	COMPATIBLE	INCOMPATIBLE	COMPATIBLE	COMPATIBLE	INCOMPATIBLE	COMPATIBLE	COMPATIBLE	BORDERLINE COMPATIBLE	COMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	N/A	N/A
Calcium 12-Hydroxy	COMPATIBLE	COMPATIBLE	COMPATIBLE	INCOMPATIBLE	BORDERLINE COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	N/A	N/A
Calcium Complex	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	BORDERLINE COMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	COMPATIBLE	COMPATIBLE	INCOMPATIBLE	COMPATIBLE	INCOMPATIBLE
Clay (Bentone)	INCOMPATIBLE	INCOMPATIBLE	COMPATIBLE	COMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	COMPATIBLE
Lithium	INCOMPATIBLE	INCOMPATIBLE	COMPATIBLE	COMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	COMPATIBLE	COMPATIBLE
Lithium 12-Hydroxy	INCOMPATIBLE	INCOMPATIBLE	BORDERLINE COMPATIBLE	COMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	COMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	COMPATIBLE	COMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	COMPATIBLE	N/A
Lithium Complex	COMPATIBLE	INCOMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	COMPATIBLE	COMPATIBLE
Polyurea*	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	COMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	*	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE
Sodium	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE
Calcium Sulphonate	INCOMPATIBLE	BORDERLINE COMPATIBLE	N/A	N/A	COMPATIBLE	INCOMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	N/A
Silica	COMPATIBLE	COMPATIBLE	N/A	N/A	INCOMPATIBLE	COMPATIBLE	COMPATIBLE	N/A	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	INCOMPATIBLE	INCOMPATIBLE	N/A	INCOMPATIBLE



LIQUID TECHNOLOGY

Bergensesteenweg 713 | BE-1600 Sint-Pieters-Leeuw, Belgium
Tel. +32 (0)2 365 02 00 | www.unil.com | @UnilLubricants



FSC
www.fsc.org

MIX

Paper from
responsible sources

FSC® C012419