

COMPOSITION OF GREASES

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



OVERVIEW OF GREASE	S MANUFACTURED BY UI	NIL LUBRICANTS	00	0	1	2	3	4
	Simple soap	Li	Grease EP/R	Grease EP/R	Grease EP/R	Grease EP/R	Grease EP/R Molith EP 2	
		Ca-sulphona- te				ESCA Grease CA 2 400		
	Mixed soap	Li-Ca		Caliopal		Caliopal Supergrease 200 Supergrease 350		
		Ca-Na						
Thickening agent	Li-complex	Li-complex				Alba + Thermoplex		
	Complex soap	Ca-complex	Polyfood			Polyfood		
		Al-complex				Grease AL/TF 2 ESCA Grease P AL		
	Non soap	Bentonite				Grease HT 300 Copper Anti-Seize Alimenta		
		Polyurea				Polygrease		

Colored spaces represent the colors of the greases.

04

GENERAL LUBRICATION

Name of product	Applications		Compo	osition					Characteristics			
				Base oil		Colour	Consistency	Temperature	Mechanical stability	Resistance to water	Extreme pressure capacity	Corrosion resistance
	Soap base	Thaw point (°C)	Nature	Viscos- ity (cSt at 40°C)		NLGI grade	Operating temperatures (°C) min/max					
Grease EP/R	All-round, extreme pressure grease, ideal for standardising multiple lubrication applications.	Lithium	160 160 190 190 190	Mineral	60 64 130 120 130	Amber	00 0 1 2 3	-30/+120 -30/+120 -20/+130 -20/+130 -20/+130	XX XX XX XX XX	XX XX XX XX	XX XX XX XX XX	XX XX XX XX XX
Supergrease 200 Supergrease 350			180	Mineral	310 400	Green Blue	2	-20/+140 -20/+120	XXX XXX	XXX XXX	XXX XXX	XXX XXX
Caliopal	Ultra-pressure grease for plain bearings, slow-		180	Mineral	465 420	Brown	0 2	-20/+120	XXX XXX	XXX XXX	XXX XXX	XX XX

06

GENERAL LUBRICATION

Name of product	Applications		Composition					(Characteristics			
			Thickening agent		e oil	Colour	Consistency	Temperature	Mechanical stability	Resistance to water	Extreme pressure capacity	Corrosion resistance
				Nature	Viscos- ity (cSt at 40°C)		NLGI grade	Operating temperatures (°C) min/max				
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		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

08|

LONG-TERM LUBRICATION

Name of product	Applications		Compo	osition				(Characteristics			
			Thickening agent		e oil	Colour	Consistency	Temperature	Mechanical stability	Resistance to water	Extreme pressure capacity	Corrosion resistance
	Soap base	Thaw point (°C)	Nature	Viscos- ity (cSt at 40°C)		NLGI grade	Operating temperatures (°C) min/max					
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	Х	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

10|

LUBRICATION FOR SPECIFIC APPLICATIONS

Name of product	Applications		Composition					(Characteristics			
		Thickening agent		Base oil		Colour	Consistency	Temperature	Mechanical stability	Resistance to water	Extreme pressure capacity	Corrosion resistance
				Nature	Viscos- ity (cSt at 40°C)		NLGI grade	Operating temperatures (°C) min/max				
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/+150	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		185	Mineral	120	Yellow	2-3	-25/+140	XXX	XXX	XXX	XXX
Zahlit LM 22 Zahlit 0 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

12|

LUBRICATION FOR THE FOOD INDUSTRY

Name of product	Applications		Composition						Characteristics			
			Thickening agent		e oil	Colour	Consistency	Temperature	Mechanical stability	Resistance to water	Extreme pressure capacity	Corrosion resistance
	Soap base	Thaw point (°C)	Nature	Viscos- ity (cSt at 40°C)		NLGI grade	Operating temperatures (°C) min/max					
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/+120	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,		>250	PAO	100	White	2	-40/+180	XXX	X	XX	XX

|14|

LUBRICATION FOR THE FOOD INDUSTRY

Name of product	Applications		Compo	osition					Characteristics			
		Thickening agent		Base oil		Colour	Consistency	Temperature	Mechanical stability	Resistance to water	Extreme pressure capacity	Corrosion resistance
	Soap base	Thaw point (°C)	Nature	Viscos- ity (cSt at 40°C)		NLGI grade	Operating temperatures (°C) min/max					
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 sulpho- nate	>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,		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.		52-59	Vaseline	n.a.	White	4	-10/+ 50	XX	XXX	X	XX

16

	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
Al-Complex	Grease AL / TF 2 ESCA Grease P AL ESCA Food Grease		•	•		•	•	•	•		•	•	•	
Calcium	Polyfood Caliopal Supergrease 200 Supergrease 350 Compound Synbio Grease	•	•	•		/	•	•	•			•		•
Clay Bentone)	Grease HT 300 Copper Anti-Seize Alimenta	•	•			•		•	•	•	•	•	•	
Lithium	Grease EPR Molith EP 2 Grease 182 DS Grease Ultra Walzerit 3 V3	•	•			•	•	/			•	•		
Lithium Complex	Alba + Thermoplex Synthebis		•				•				•	•		
Polyurea	Polygrease	•	•	•	•		•	•	•	•	*	•	•	•
Calcium Sulphonate	ESCA Grease CA 2 400	•		N/A	N/A		•				•	•		N/A

OUALITY 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.





LIQUID TECHNOLOGY

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

