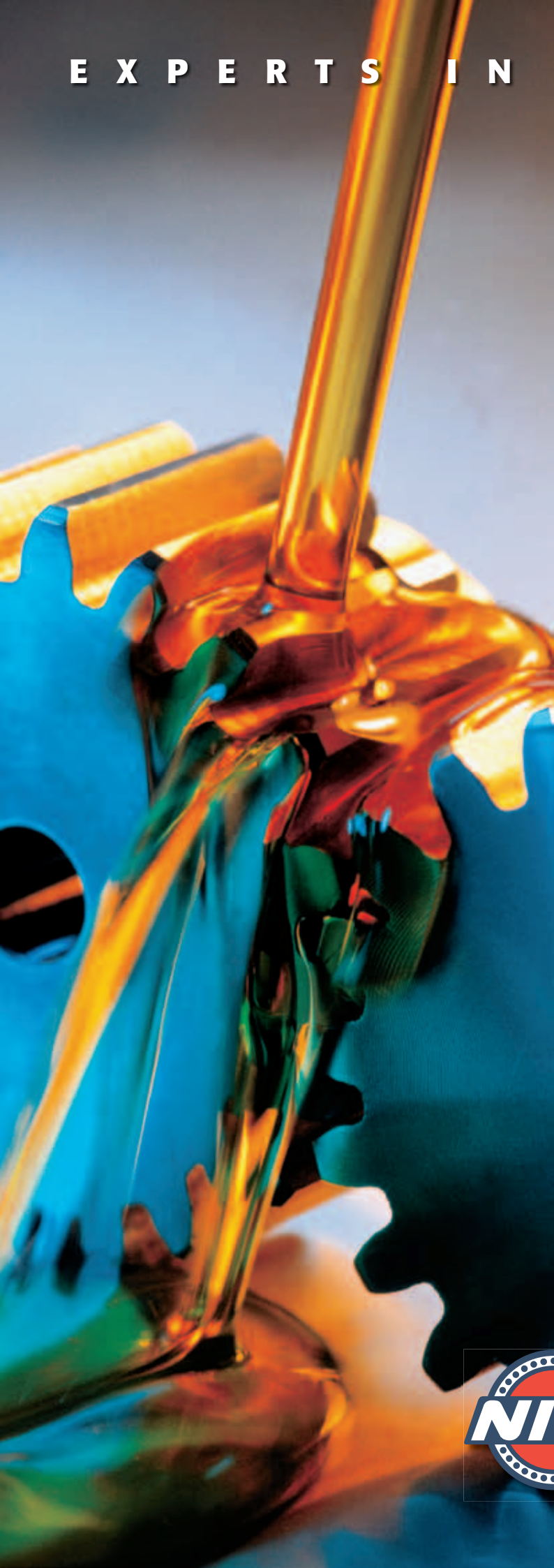


EXPERTS IN LUBRICANTS



**CABLE RAILWAYS
& GROOMERS**

Extremely resistant and particularly economic



NILS lubricants: first quality raw materials and strict controls are guarantee for top level quality production.

Three are the characteristics

that are featuring NILS special lubricants: quality, quality and ... quality again. Everything begins with raw materials choice: only first quality mineral oils, as well as synthetic based oils and biodegradable oils are used for our products. With the addition of special thickening agents and additives the character of the product is defined and NILS lubricant efficiency is obtained.

Products with references

Lubricants are not all the same: NILS SPA offers a range of products from the most common to the "upper class" article and in this way meets almost every requirement, which may have, in most cases, documented guarantees. Numerous of NILS lubricants have excellent references and appreciation from important producer companies and final users. Thanks to this our clients are sure to have chosen the best product for their purposes.

"Tailor made" lubricants

In case that none of our products should fully satisfy your particular requirements, we are able to create, in our modern and well equipped laboratories representing the top level of technology and research, a "tailor made" product completely in accordance with your particular request. A new formula product obtained will be analysed and tested with complete dedication and reliability. During the application of new products our specialists and expert technicians control carefully different possible reactions during particular conditions: for example reaction during increasing temperature or low temperature behaviour. They verify mechanical stability, water acting resistance, durability and noisiness: we never rely upon the case and we do not judge upon coincidence.

Our environmental protection program

During development and realization of our articles, NILS does not focus only on economical factor but also on environmental protection. For this reason our special lubricants don't contain heavy metals which are subject to identification regulation. Our production program contains increasing number of new biodegradable articles which maintain their efficiency. Also in "for-live" lubricants area we do not rest on our laurels as we constantly invest in your and our future.

NILS lubricants advantages

- Constant top level quality
- Extraordinary reliability and security
- Advanced technical features
- No heavy metals present subject to identification regulation
- Well balanced price/performance relationship



NILS-Lubricants: Extremely resistant and particularly economic

NILS article	Application instruction	Thickener	NLGI Grade	Base oil type Viscosity at 40°C (mm²/s)	Employment temperature range °C		DIN 51502 Code	Water resistance DIN 51807	Protection against corrosion	Central plants	Journal bearings	Rolling bearings	Open gears	Closed Gears	EP	D/N Factor (mm x min ⁻¹)
					Continuous	Short Peak										
GREASES																
ATOMIC RH	Grease with exceptional durability and extremely resistant to water and humidity, with striking EP performance and excellent adhesiveness combined with anticorrosive and rust-proof properties. Suitable for universal use on roller-bearings, pivots etc. Consents to extend considerably lubricant interval.	Spec. CA	2	Mineral oil 660	-30/+110	+125	KP 2G-30	0-90	Good	●	●	●			●	Up to 300.000
ATOMIC TTW	White EP grease for bearings and other applications working on extremely low temperatures.	Spec. CA	2	Mineral oil 14	-50/+100	+110	KP 2 G-50	0-90	Good	●	●	●			●	Up to 300.000
CALIT	Partially synthetic lubricant with PTFE additive for the bearings lubrication even in extremely humid conditions heavily loaded and with strong vibrations.	Ca-Li	2	Mineral oil 800	-30/+120	+130	KPF 2K-30	0-90	Good	●	●	●			●	Up to 300.000
DIMENSION GREASE	Synthetic oil and lithium complex soap formulated grease with total insolubility in water, perfect adhesion and lubrication performance particularly suitable for fast bearings and for big temperature variations.	Li-K	2	Sinthetic 70	-30/+150	+180	KP 2N-20	1-90	Good	●	●				●	Up to 500.000
TUKAN	Multipurpose EP lubricant grease, with excellent lubricant characteristics, humid resistance combined with anticorrosive and rust-proof properties. Universal use for any type of bearings.	Li	0, 1, 2, 3	Mineral oil 180	-20/+130	+140	KP 2K-20	1-90	Good	●	●	●			●	Up to 400.000
SINUS	Biodegradable synthetic ester based lubricant grease with excellent mechanical and water stability, very good lubricant adhesiveness. Available in classes NLGI 000, 00, 0 and 1.	Li	2	Sinthetic 65	-40/+120	+130	KPE 2 K-40	1-90	Good	●	●	●			●	Up to 300.000
PASTES																
WHITE STAR	EP grease with special white additive for bearing and trunnion lubrication. Completely stable in presence of water and resistant to elevate pressure and vibrations. Consents to extend considerably lubricant interval.	Ca. special	2	Mineral oil 800	-30/+110	+125	KPF 2 G-30	0-90	Good			●	●		●	
CETAL	Special high-temperature graphite grease for the lubrication of large gears, rotation furnace transmissions, cement mixers and similar.	Al-K	0	Mineral oil 300 (lubricant film)	-30/+250		OGF 0 S-30	0-90	Medium			●	●		●	
WEGA 2	Special assembling and running-in paste containing chemical EP additives and high percentage of MoS2 fine powder. Suitable for assembling and greasing of guide rails, trunnions, matched screws, wheels etc. guarantees sliding and easy dismantling even after long period. Ideal also for lubrication of ski lift and cableway cables and parts.	Inorganic	1-2	-	-30/+450		MPF 1/2U-30	1-90	Good			●	●		●	
WEGA 3	Universal metal-free white pasta based on synthetic oil. Avoids oxidation, seizure, cold welding and corrosion of parts which can be easily separated.	Inorganic	2	Sinthetic 120	-30/+1.400		MPF 2 U-30	0-90	Excellent	●			●			●
HTM	Copper separation and assembling paste. For all assembling elements as screws, nuts, trunnions, braces etc. subjected to extremely high temperature in corrosive environment.	Inorganic	1-2	-	-30/+700		MPF 1/2U-30	1-90	Good						●	
CABLE LUBRICANTS																
KALOS 20-43	Special cable lubricant, guarantees excellent anti-corrosive protection and favourable behaviour towards rubber rollers and reversal wheels.	Synthetic														
LUROP	LUROP 20-7, 20-8 and 20-9 are special cable lubricants with excellent performances and favourable behaviour towards rubber rollers and plastic.	Synthetic														

Only a part of our reliable products are shown above. In case of specific request we kindly ask you to contact your NILS consultant.

NILS cable-lubrication and cable-cleaning equipment: simple to use, extremely efficient!

Cleaning comb pin JSA 750

Before the lubrication, dirt and rust should be eliminated from the cable. For this operation our cleaning comb pin JSA 750 demonstrated it's efficiency and validity. Special gravers are perfectly following

the cable profile and "combing" the strand, eliminating the dirt even from the deepest points and grooves, in the meantime the connected brush is cleaning the cable surface. Gravers, realized in soft-steel, are pushed by a spring and can be replaced; they have fixed breaking point and they glide smoothly without any danger for the cable.



Cable lubricant set JSA 800

After the cable cleaning, lubrication with special JSA 800 set can be proceeded. Special gear pump is pushing lubricant under high pressure towards the jets from which through 6 very fine nozzles it is distributed on the cable surface. The position of those jets and the adjustable pump pressure guarantee uniform distribution of lubricant. Cable strands are perfectly lubricated and this avoids their corrosion. Surplus of lubricant is picked up and brought back to it's tank by special flexible tube.



NILS-Lubricants: Optimal quality and performance adaptable to your specific requirements

NILS Article	Application Instruction	Basic oil	SAE	ISO VG	API	ACEA	MIL	Viscosity index	Density	TBN	Engine	Hydraulic system	Reduction unit	Differential	Automatic transmiss.
ENGINE OILS															
DIMENSION-S SAE 5W/50	Completely synthetic super multi grade motor oil, especially formulated for the use in gasoline or diesel last generation engines, turbo-charged or not.	PAO	5W/50		CI 4/SL	A3/B3/B4		163	0,85	10	●				
STRATOS	Synthetic oil formulated for latest generation turbo diesel engines for heavy duty vehicles, which allows to increase change interval up to 100.000 Km. Correspond with new norms Mercedes 228.5, MAN QC 13-017and Volvo VDS 2.	PAO	10W/40		CF	E4/E6		155	0,86	9,0	●				
BORA	Synthetic motor oil for latest generation diesel engines, which allows to increase change interval up to 100.000 Km. In accordance with new norms MB 228.5, Volvo VDS 2	PAO	10W/40		CH4/SL	E4/E7 A3/B3		144	0,86	12	●				
SIRIO	High performance motor oil for prolonged change intervals, formulated on hydrocrack basis and selected additives for latest generation diesel and petrol. In accordance, among others, with MB228.3, Volvo VDS 3 and MAN M 3275 norms.	HC	10W/40		CI 4/SL	A3/B4/E5		155	0,88	10	●				
MISTRAL	Special oil for diesel or petrol engines (turbo or induction). Allows to extend remarkably change intervals, thus improving the economy. In accordance with MAN 3275, MB 228.3, Volvo VDS3, CAT ECF1 specifications.	Mineral oil	15W/40		CI 4/SL	E7/E5/B4/B3/A3		137	0,89	10	●				
SPIKA	Super-detergent oil for supercharged diesel engines working under difficult conditions. In SAE 10W class can be used above all on hydraulic systems (for example Caterpillar, Bobcat etc.). SPIKA SAE 10 and SAE 30 are available also in accordance to Caterpillar TO-4 specification.	Mineral oil	10W				2104E	109	0,880		●				
		Mineral oil	30W		CF/CF2		2104E	109	0,890		●		●		
		Mineral oil	40W		CF		2104E	109	0,890		●		●		
HYDRAULIC FLUIDS															
ANTARES HVI	High index viscosity hydraulic oil for compensated pressure control to be used under particularly difficult conditions with low or with high temperature variations. Available in viscosity class from 32 to 68.	Mineral oil		Variable				155	0,880			●			
ANTARES HR 22	Hydraulic fluid with particularly high viscosity index, for use in applications with extreme temperature changes. Excellent corrosion protection, detergent characteristics and EP additives. Mineral oil (nella colonna Basic oil).	Mineral oil													
ANTARES ES	Synthetic ester based biodegradable hydraulic fluid. No water or ground pollution in case of spillage. Biodegradable according to the CEC L 33 T 82 norm above 89%.	Synthetic Ester		46				150	0,916			●			
TTO 771	Non freezing premium performance anti-wear hydraulic oil.	Synth. oil													
TTO 971 PAO	Synthetic based non-freezing oil for high pressures suitable for hydraulic systems working on extremely low temp.	PAO		15				327				●			
UNIVERSAL OILS															
AGROMAC 68	High performance UTTO oil formulated for tractor and agricultural machinery lubrication. It is suitable for all year round lubrication of gear, transmission, hydraulic system, brakes and oil bath clutch.	Mineral oil	68		GL4			156	0,88			●	●	●	
AGROSYNT	High performance UTTO oil formulated for tractor and agricultural machinery lubrication. It is suitable for all year round lubrication of gear, transmission, hydraulic system, brakes and oil bath clutch. In accordance with Massey Ferguson, Ford, Case and John Deere specifications.	PAO		68	GL5		2105B	115	0,910			●	●	●	
ATF FLUIDS															
ATF DEXRON II	Automatic transmission fluid in accordance with GM 6137-M DEXRON specification.	Mineral oil		32				180	0,890			●			●
ATF DEXRON III H	Automatic transmission and hydraulic systems liquid for work in extreme environmental conditions. In accordance with GM DEXRON III, FORD MERCON, ALLISON C4 and DB p 236.1 norms. Recommended for hydraulic systems of LEITNER and PRINOTH snow cat vehicles.	Synthetic		32				185	0,890			●			●
GEAR OILS															
RIPRESS EP	Gear oil with excellent EP characteristics, anti mechanical wear, high stability against thermic oxidation, anticorrosive and antirust. Available in viscosity class from 68 to 680.	Mineral oil		Variable				96	0,88-0,92				●		
RIPRESS SYNT 220	Synthetic oil for all types of gears and boxes (carters). High viscosity index, excellent oxidation resistance and thermic stability are guarantee for long term exercise of glass production machines, paper mills, cockles, ski-lift facilities. Available in viscosity class from 150 to 680.	PAG		Variable				225-245	1,000				●		
ALGOL EP	Differential gear oil, prepared on top quality paraffin base with special anti-wearing and antiabrasion additive. This is a guarantee of a high resistance oil film.	Mineral oil	80W/90		GL4/GL5		2105B	100	0,900				●	●	
			85W/140		GL4/GL5		2105B	100	0,910				●	●	
ARCOL SYNT PAO	Synthetic gear oil for gears, differentials and industrial reduction units. Guaranteeing excellent performance viscosity-temperature and remarkable gear friction as well as mechanical wear reduction.	PAO	75W/90	150	GL4/GL5		2105E	152	0,870				●	●	
ATOIL SYNT PAO	Synthetic gear oil for gears, differentials and industrial reduction units. Guaranteeing excellent performance viscosity-temperature and remarkable gear friction as well as mechanical wear reduction.	PAO	75W/140	220	GL4/GL5		2105D	168	0,900				●	●	
COMPRESSOR OILS															
COMPRESS PAO	Completely synthetic oil specifically formulated for the lubrication of rotary type compressors (rotary vane as well as screw compressors) but is suitable also for alternative (piston) compressors. Assures extremely elevated change intervals even if working in extremely difficult conditions.			various				145	0,84						
COMPRESS R BIO	Synthetic biodegradable lubricant oil, specially formulated for rotation (screw and pallet) compressors lubrication. Assures extremely elevated change intervals. Compatible with most commonly used elastomers.	Synthetic ester		various				152-160	0,901						



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Extremely resistant and particularly economic

NILS lubricants: best raw materials are guarantee for top level quality production.

More productivity and better performances. With security and less emission!



PM 1 – LS

New precision manual lubricator made in steel for LS type cartridge (Lube Shuttle).

PM 1 – Manual lubricator

Precision manual lubricator made in steel for 400g cartridges and loose grease.

PERMA STAR

Perma automatic lubrication system with electromechanical activation system, exclusively provided with high performance NILS products.

PERMA CLASSIC

Perma automatic lubrication system with electrochemical activation system; exclusively provided with high performance NILS products.



PA 50 – Pneumatic pump set

Complete set for 50/60 Kg drums contains:

- pneumatic grease pump, ratio 50:1
- 4 wheels universal base trolley
- delivery tube, length 7m, 600 bar
- grease gun
- drum cover
- membrane
- controlling gauge, filter-regulator and lubricant

Evolution is a part of our tradition



NILS lubricants: we can prove our value!

If we are actually main producer

of special lubricants, it is not just thanks to our excellent products, but also thanks to our creativity, competence and capacity to find optimal solutions for every requirement. Furthermore there are our efforts to develop new articles able to meet market's demands and create best condition for man, technology and environment.

Man on the top of our attention

Reconcile economy and ecology: for example using amine-free refrigerants where no boric acid or bactericide is employed; or with NILS easily biodegradable lubricants, in respect of laws in force and in many cases even more restrictive than those prescribed by the current laws.

With diligence and precision towards success

We assign a special importance to research and development. We are able to find an optimal solution as answer to a particular request in order to give our customers a great satisfaction; each of our lubricant and oil is strictly controlled, tested and inspected in modern analytic laboratories until the desired effect is obtained.

Quality guarantee

Even when the composition of lubricant is decided we have not reached our target. Careful controls during the whole production process are further guarantee that the top quality, typical for all the NILS products, will be maintained.

Assistance and service

Every NILS product is essentially based on the research of technical and economical most advantaged solution in favour of our customers; this can be reached for example with prolonged lubricant and maintenance intervals or with the reduction of volume of common lubricants used up to now. You can count also on our suggestions concerning labour protection and environmental protection issues as well as respecting laws and rules pertinent to our industry.

Optimal lubricant

Only with complete and careful service and advice excellent results from our products can be reached. This is what our customers expect. Together with certainty that with our lubricant you will always reach perfection.



CABLE RAILWAYS & GROOMERS



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