

ADDINOL[®]

THE ART OF OIL • SINCE 1936

High-performance lubricants
for **FOOD** and
BEVERAGE INDUSTRIES



www.addinol.de





Solutions for all lubrication-related challenges

ADDINOL is one of the few companies in the German mineral oil industry acting independently of any large business group and has distributor partners on all continents and in more than 120 countries. Our high-performance lubricants are design

elements reflecting the highest level of modern technology. In symbiosis with engines, drives, chains, bearings and hydraulic systems they reveal their full performance.



Development and production at the company site in Leuna, one of the most modern lubricant factories in Europe



Decades of experience and close cooperation with internationally leading OEM and institutes. State-of-the-art instrumental analytics and selected machine test benches in our own laboratory



Competent partner network in more than 120 countries and on all continents



More than 650 different products, filled, packed, stored and dispatched in line with highest standards



Extended operating lives, increased energy efficiency, reliable protection of components, extended lifetime and resource-conserving – added value in the long run



Our service for you: application-technical support, comprehensive analyses service, trainings at the ADDINOL Academy



Quality and environmental management certified according to DIN EN ISO 9001:2015 and 14001:2015 by TÜV Süd Management Service GmbH



DIN EN ISO 21469: Leuna production site certified according to strict hygiene requirements, covering the formulation, production, packaging and storage of lubricants where unintended contact with food cannot be completely ruled out



ADDINOL FoodProof

Food-safe and capable

The production of food and beverages is subject to strict food safety regulations. The plants in these industries often operate round the clock under high and specific loads.

ADDINOL FoodProof lubricating oils and selected NSF H1-registered lubricating greases are specifically tailored to different components, applications and operating conditions. They ensure maximum performance of plant and machinery whilst guaranteeing the highest level of food safety for consumers.

- ✓ Lubricants for all applications and conditions
- ✓ Fully compliant with food safety regulations, harmless to health, tasteless and odourless
- ✓ NSF H1 certified and registered in the NSF White Book
- ✓ Certified as kosher and halal
- ✓ Also suitable for the production of animal feed, cosmetics and pharmaceuticals
- ✓ Production site certified according to DIN EN ISO 21469

Your benefits at a glance



reliable protection against friction, wear and corrosion



excellent resistance to ageing for long service lives



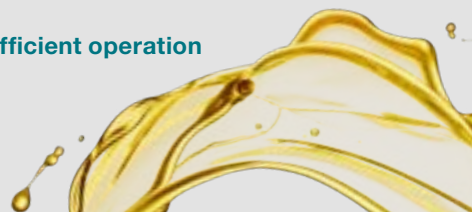
high temperature stability



resistant to aggressive environmental conditions



reliable, efficient operation



ADDINOL Power Pack

The FoodProof Range



Technical advice
Worldwide



FoodProof
Sprays

... all at one stop

FoodProof
Lubricating oils and greases



FoodProof
Cleaner



FOODPROOF

Product range

Certifications explained:

Lubricants used in the production and packaging of food and beverages must not compromise product quality or consumer health and are therefore subject to strict regulations and standards.

FDA (FOOD AND DRUG ADMINISTRATION)
Defined in 21 CFR § 178.3570: precise chemical names and quantities of the permitted raw materials, which are physiologically safe and have undergone toxicological testing. Classification by NSF

NSF (NATIONAL SANITATION FOUNDATION)
Lubricants compliant with NSF H1:

- for lubrication points where accidental food contact cannot be ruled out
- are physiologically safe, tasteless and odourless.

Lubricants compliant with NSF 3H:

- Mould release agents for applications involving direct and continuous contact between lubricant and food
- For use in the production of food and food packaging.

Lubricants compliant with NSF H2:

- general-purpose lubricants used in food industry, where contact with food can be ruled out
- free from toxic components.

Lubricants compliant with NSF K3

- intensive cleaners and adhesive removers for cleaning food packaging materials and processing areas where contact with food is not intended.

Lubricants compliant with NSF A1

- cleaners for the food sector, for general, universal use, for production areas in food industry.

Lubricants in accordance with NSF HT-1

- heat transfer fluids for lubrication points where oil may accidentally come into contact with food.

In addition to food safety standards, compliance with religious dietary laws is also relevant in the production of foodstuffs.

KOSHER
Annual audit and certification of raw materials, products and the manufacturing process in accordance with Jewish dietary laws: Raw materials must not be of animal origin

HALAL
Annual audit and certification of raw materials, products and manufacturing processes in accordance with Islamic dietary laws: Raw materials must not have come into contact with pork or alcohol or contain any of their ingredients



ADDINOL	ISO VG	NSF H1 Reg.-No.	Standards	Base oil	Loads FZG A/8, 3/90	lower appl.-temp.°C	upper	Pour point °C	Flash point °C	Kosher	Halal	Product characteristics
Lubricating oils for drives and gears												
FoodProof CLP 150 WX 220 WX 320 WX	150 220 320	163461 154560 154561	DIN 51517-3 (CLP) ISO 12925-1 / ISO 6743-6 CKC / CKD ANSI/AGMA 9005-F16	medical white oil	≥ 12	-10	100	-21 -20 -20	+252 +250 +260	☑	☑	for nearly all construction types of closed industrial gears with spur or bevel gearing, reliable protection against corrosion and cavitation also at heavy impact of foreign substances, low foaming tendency, neutral towards conventional sealing materials and paints ISO VG 220, 320: Approval Pekrun Standard 8053
FoodProof UNI 32 S 46 S 68 S 100 S 150 S 220 S 320 S 460 S 680 S 1000 S	32 46 68 100 150 220 320 460 680 1000	155759 155760 155761 155762 155763 155764 155765 155773 155774 155775	DIN 51517-3 (CLP) ISO 12925-1 / ISO 6743-6 CKC / CKD / CKE ANSI/AGMA 9005-F16	PAO	≥ 12	-40 -35 -30	+120	-65 -60 -55 -50 -45 -35	+250 +270	☑	☑	for heavy loaded gears and bearings, also suited as circulating oil for general machine lubrication, best load bearing capacity, reliable protection against corrosion and wear, low foaming tendency, neutral towards common sealing materials and paints from ISO VG 32: Approval Pekrun Standard 8053 ISO VG 100, 150: Approval Ferrum Packaging Ltd. from ISO VG 220: Approval Zeilfelder pumps

Lubricating oils for chain lubrication												
FoodProof XHF 15 S 32 S 150 S 220 S 320 S 460 S 680 S	15 32 150 220 320 460 680	155961 155962 155963 161869 161871 155964 155965		PAO/ ester		-40 -60 -30	+250	-70 -65 -50	+200 +250 > +270	☑	☑	general chain lubrication, also fit for high requirements, best corrosion and wear protection, good adhesiveness, highly ageing resistant, excellent load bearing capacity
FoodProof XHF 320 HT 460 HT	320 460			ester		0 0	+260 +260	-27 -24	+280 +280	☑	☑	chain lubrication at high temperatures and difficult conditions in ovens, dryers etc., highest thermal-oxidative stability, low evaporation loss, no formation of deposits and residues
Plantfluid	V40 = 42 mm²/s			native		0	+180	-18	+320			for high-temperature applications at conveyor belts or chains (e.g. continuous furnaces in large bakeries), best protection against corrosion and wear
FoodProof XHF 460 S Spray	460	139241		PAO/ ester		-30	+250, at short relubrication intervals	-45	> +270 after evaporation			ideal for bearings, guideways and sliding surfaces at high temperature conditions, resistant towards environmental impact, neutral towards common sealing materials
Cliptec XHS 285 FG	V40 = 289 mm²/s	160951		ester			+250	-27	+290	☑	☑	high-performance chain oil for food and beverage industry, especially in the manufacturing of packing materials, suited for high temperatures and difficult conditions, prevents encrustation and deposits efficiently, application in conveyor systems at high temperatures Approval: Brückner
Cliptec XHS 485 FG	V40 = 410 mm²/s	150958		ester			+260	-22	+290	☑	☑	
Chain System Cleaner FG	V40 = 72 mm²/s	163352		ester			+240	-48	+275	☑	☑	designed for cleaning chains, sliding elements and roller chain systems in the food industry, dissolves incrustations, foreign materials and residues, very temperature stable, ideal for blocked oil feeds and distributors as well as cleaning of low-flow areas, rinsing process recommended before refilling and changeover as well as regular cleaning runs

Lubricating oils for hydraulic units																
FoodProof HLP 46 WX 68 WX	46	154309	DIN 51524-2 (HLP)	medical white oil	≥ 12	0	—	—	—			pressure medium for industrial hydraulic plants of various construction types, also fit for high demands, excellent load bearing capacity, very ageing resistant, protection against corrosion, wear, cavitation and foaming				
	68	154310					+90	-20	+220				+90	-12	+250	
FoodProof HLP 15 S 22 S 32 S 46 S 68 S 100 S	15	154386	DIN 51524-2 (HLP)	PAO	≥ 12	-40	+120	-70	+190			pressure medium for industrial hydraulic plants of various construction types, also fit for high demands, excellent load bearing capacity, very ageing resistant, protection against corrosion, wear, cavitation and foaming ISO VG 46: Approval KraussMaffei Technologies				
	22	154387											—	—	+220	
	32	154388											DIN 51524-2	—	-60	+230
	46	154389											(HLP),	-35	+240	
	68	154390											DIN 51524-3	-30	+265	
	100	154391											(HVLP)	—	+270	

ADDINOL	ISO VG	NSF H1 Reg.-No.	Standards	Base oil	Loads FZG A/8, 3/90	lower appl.-temp.°C	upper	Pour point °C	Flash point °C	Kosher	Halal	Product characteristics
FoodProof UNI 15 S	15	155758	DIN 51524-2 (HLP)	PAO		-40	+120	-70	+200	☑	☑	see Drives and Gears
FoodProof UNI 32 S ... 150 S	32 ... 150	see above	DIN 51524-2 (HLP), DIN 51524-3 (HVLP)	PAO	≥ 12	see above		see above	see above	☑	☑	
White oil WX 15 ... WX 100	15 ... 100	see below	Meet: DAB, PhEur, BP, USP, FDA 21 CFR 178.3570, FDA 21 CFR 172.878, FDA 21 CFR 178.3620 (a)	medical white oil				see below	see below	☑	☑	see Further
FoodProof BIO 46	46	170535	DIN EN ISO 15380 (HEES), DIN 51524-2 (HLP), DIN 51524-3 (HVLP)** OECD 301 B > 60 % (in 28 days)	ester		-35	+120	-51	260	☑	☑ running	lubrication for plants in ecologically sensitive areas, can be used for example in agriculture or fishing, ideal as pressure medium in hydraulic systems, highly resistant to ageing, reliable protection against corrosion and wear, excellent air and water separation properties, low foaming tendency

Lubricating oils for compressors, vacuum pumps, compressed air units

FoodProof VDL 32 S 46 S 68 S 100 S 150 S	32 46 68 100 150	154562 154563 154564 154565 154566	DIN 51506 (VDL)	PAO		-35	+120	< -60 < -55	+260	☑	☑	for air compressors of all construction types at discharge temperatures up to +220 °C, ideal for screw-type compressors and sliding-vane compressors, suited for high demands
FoodProof UNI 32 S ... 150 S	32 ... 150	siehe oben	DIN 51506 (VDL)	PAO		see above	+120	see above	see above	☑	☑	see Drives and Gears

Further lubricants

ADDINOL FoodProof XW 32 M	32	15783 plus NSF 3H, HT-1	DIN ISO 6743-12 QB	medical white oil		-10	+300	-18	+218	☑	☑	heat transfer medium for sensitive applications, suited for gentle heating of sensitive and safe heating of hazardous substances in closed systems, initial boiling point: +349 °C, maximum film temperature (without access of air): +330 °C
Antifreeze FG	V20 = 70 mm²/s			pro-pylene glycol		-50			+109			protection against freezing, cavitation and corrosion in cooling circuits, biodegradable, high chemical stability, low foaming tendency, miscible with water: ratio depending on operating conditions
White oil WX 15 WX 32 WX 68 WX 100	15 32 68 100	147319 * 156391 * 156392 * 173335 *	Meet: DAB, PhEur, BP, USP, FDA 21 CFR 178.3570, FDA 21 CFR 172.878, FDA 21 CFR 178.3620 (a)	medical white oil				-22 -12	+190 +210 +255	☑	☑	circulation and machine oil for low requirements, excellent suitability for packing machines, high stability towards environmental impact, best corrosion protection, good oxidation stability
Cutoil FG 15	15			medical white oil				-15	> +180			ideal for cutting and packing units, stable towards environmental impact, best corrosion protection, high ageing stability
3H Special Release Oil	V40 = 73 mm²/s	164209 *		medical white oil		-35	+120	-12	+260			special release agent for the production of PE-coated beverage and yoghurt cups, odourless and tasteless, water bright, oxidation stable

* plus NSF 3H ** TOST test according to DIN EN ISO 4263-3

ADDINOL	NLGI	NSF H1 Reg.-No.	Standards	Base oil	Base oil viscosity at 40°C m2/s	Thickener	lower appl.-temp.°C	upper	Product characteristics
Lubricating greases for roller and sliding bearings									
Addiplex CSX 150 W	2	171808	KP2N-20	medical white oil	150	Ca-complex	-20	+140	special grease with EP additives for high or shock loads, resistant to water, steam and disinfectants, halal and kosher certified. Approval: Ferrum Packaging Ltd. (running)
Multiplex FD 2	2	138176	K2N-20	medical white oil	160	Al-complex	-20	+140	multi-purpose grease without EP-additives and excellent water resistance, halal and kosher certification
Addition Super 2 EP Plus	2	163809	KPFK2U-50	PFPE	190	PTFE	-50	+260	special synthetic grease for long-term and boundary lubrication of roller and plain bearings subject to high thermal loads, reduces friction and wear, reliable corrosion protection, resistant to solvents, concentrated acids, bases, alcohol and halogens
FG Grease AL 00	00	157942	GPFGC00P-40	PAO	350	Al-complex	-45	+160	synthetic fluid grease containing EP-additives, provides excellent water resistance and a wide service temperature range, halal and kosher certification
FG Grease AL 1	1	157929	KPFHC1P-40	PAO	350	Al-complex	-45	+160	synthetic grease containing EP-additives, provides excellent water resistance and a wide service temperature range, halal and kosher certification
FG Grease AL 2	2	142558	KPFHC2P-40	PAO	350	Al-complex	-45	+160	synthetic grease containing EP-additives, provides excellent water resistance and a wide service temperature range, halal and kosher certification

Granule Grease FD 2	2	163691	KPF2N-20	medical white oil	460	Al-complex	-20	+140	special grease for long-term lubrication, suitable for high loads, moisture and increased temperatures, use e.g. in roller bearings in pellet presses in the feed industry, use in central lubrication systems, halal and kosher certification
Addition PFPE Premium FD 2 Plus	2	157876	KFK2U-30	PFPE	500	PTFE	-30	+285	synthetic grease based on perfluorinated compounds with very high load carrying capacity and excellent anti-corrosion properties, provides outstanding oxidation stability and media resistance

Lubricating greases for gears									
FG Grease AL 00	00	157942	GPFGC00P-40	PAO	350	Al-complex	-45	+160	synthetic fluid grease containing EP-additives, provides excellent water resistance and a wide service temperature range, halal and kosher certification

Service products for maintenance and care

WXA Spray		139242 plus NSF 3H, H3		medical white oil	72		-10	+180	for chains, packing units, collars, o-seals, drives, high stability towards environmental impact and ageing, water-displacing penetrating properties
Silicone Spray Silicone Spray LV		147191 158706		silicone oil	350 1,000 (at 25 °C)		-50	+250	universal sliding, separating and lubricating agent, high chemical stability (towards salt water, vapour, acids and lyes), also fit for high temperatures, Silicone Spray LV achieves highly viscous lubricant film after application and also reaches the tightest lubrication points, suited for applications in the manufacturing of packaging films (especially Brückner) among others
FoodProof XHF 460 S Spray		139241		PAO	460		-30	+250	for bearings, chains, guideways and sliding surfaces, resistant towards environmental impact, high temperature stability, best wear protection
FoodProof Cleaning Spray		165843 plus NSF K1, K3		hydro-carbons			-20		universally applicable spray for the thorough removal of oils, greases, abrasion and resinous residues, physiologically harmless, dries without leaving any residue, compatible with plastics and rubber
Addisil FG 3	3	169476	MSI3R-40	silicone oil	750	PTFE	-40	+180	food and fitting grease for lubrication and sealing purposes, ideal for breweries and beverage industry, resistant towards both hot and cold water, long operating lives, resistant towards disinfectant solutions, excellent compatibility with elastomers, incl. EPDM, NBR and FKM
Addisil WTG 1	1	163682	MSI1R-50	silicone oil	2,500	PTFE	-50	+180	silicone grease for a wide operating temperature range, suitable for taps, single-lever mixers and thermostatic mixers. Ideal for changing temperatures ACS certified, WRAS approved
FoodProof Uni Cleaner		169665 NSF A1							water-based, alkaline cleaner for removing oils, fats, proteins, release agents, grease, waxes and other residues; optimum adhesion; can be diluted with water; when used in the food industry, surfaces must be rinsed with water after cleaning
FoodProof Special Cleaner		169666 NSF A1							water-based, slightly alkaline surfactant cleaner for removing heavy soiling, e.g. abrasion, residues, oils and greases, low foaming, high dissolving power, for use on heavily soiled components, when used in the food industry, surfaces must be rinsed with water after cleaning
FoodProof Extra Cleaner		172489 NSF A1							highly concentrated, low-foaming, water-based intensive cleaner with alkaline properties, removes vegetable and mineral oils, fats, proteins, release agents, smoke and waxes as well as paint residues and pigment paints, ready to use, can be diluted with water depending on the area of application, when used in the food industry, surfaces must be rinsed with water after cleaning



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Issue 03/2026

