



Speciality lubricants for
food processing technology

www.oks-germany.com



***BECAUSE OF YOUR
RESPONSIBILITY TO PEOPLE.***

Speciality Lubricants
Maintenance Products

45 YEARS OF TRIBOLOGICAL COMPETENCE AVAILABLE WORLDWIDE

OKS – your professional partner for chemical-technical special products

The OKS brand stands for high-performance products for reducing friction, wear and corrosion. Our products are used in all the areas of production and maintenance technology in which the performance limits of classic lubricants are exceeded.

Quality – Made in Germany

The continued success of OKS for 45 years is decisively characterised by the high quality and reliability of our products, as well as the fast implementation of customer requirements through innovative solutions.

The products developed by OKS engineers and chemists are produced under strict quality requirements in Maisach, Germany, our company's headquarters. From here sales are carried out just-in-time worldwide, supported by an integrated modern logistics centre.

The high OKS quality standard is confirmed by the certifications of the TÜV SÜD Management Service GmbH in the fields of quality (ISO 9001: 2015), environment (ISO 14001: 2015) and work protection (ISO 45001: 2018).



www.tuev-sued.de/ms-zert

A company of the Freudenberg Group

Since 2003 OKS Spezialschmierstoffe GmbH has been part of the international Freudenberg Group, with headquarters in Weinheim, Germany. We utilize the comprehensive know-how and the innovative power of the Freudenberg Chemical Specialties (FCS) division for the further development of new products and markets to ensure the continued dynamic growth of our company in the future.

OKS – Partner to Trade

Our speciality lubricants and chemotechnical maintenance products are sold via the technical and mineral oil trades. The strategy of "Sales via trade", the smooth processing of orders and our comprehensive technical service make us one of the preferred partners for demanding customers worldwide. Use our specialist's know-how. Put us to the test.

NSF CERTIFIED SPECIALITY LUBRICANTS FOR YOUR SAFETY

Intelligent lubricant technology from OKS. For all industries related to food processing.

OKS lubricants for food processing technology can be used in all areas in which human beings could come into contact with lubricants. This goes far beyond the food processing and beverage industry. Typical users include:

- Manufacturers of food packaging
- Machine and system builders for the food processing industry
- Operators of logistics centres for foodstuffs
- Producers of household appliances like baking ovens, refrigerators etc.
- Toy industry
- Pharmaceutical industry

With OKS speciality lubricants you're on the safe side. There is currently no binding European or international legislation for lubricants approved for use in the food processing industry. As a result, in food processing technology and related areas, it is primarily the US regulations, which are the world's strictest, that are utilised.

Positive list of the FDA (Food and Drug Administration). This list recognised around the world contains all ingredients permissible in lubricants approved for use in food processing.

All lubricants tested by the NSF (National Sanitation Foundation) are published in the white book of the NSF based on this list. You can find the list of these lubricants at www.nsf.org in the chapter entitled "Nonfood Compounds Listings Directory", arranged by company name.

The classification **NSF H1** stands for lubricants which may be used when contact with food cannot be technically excluded.

The lubricants that may be used when contact with food is technically excluded are summarised under **NSF H2**.

EC Directive 93/43/EEC (of 14/6/93)

This directive requires food processing plants to use the HACCP (Hazard Analysis Critical Control Point) method. This preventative system ensures that every contamination-relevant step in the manufacturing process of a foodstuff can be identified and monitored. Even if this directive contains no regulations with regard to the ingredients of lubricants approved for use in food processing, the HACCP method covers the handling of lubricants in food processing technology.

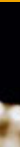


By using OKS speciality lubricants for food processing technology, you ensure compliance with national and international regulations – because of your responsibility to people.

NSF-CERTIFIED PRODUCTS FOR FOOD PROCESSING TECHNOLOGY

Oils

Product	Designation	Fields of Application	Purpose	Properties / Approvals	Main Components	Technical Data	Packaging
OKS 370 OKS 371*	Universal Oil for Food Processing Technology		<ul style="list-style-type: none"> • High-performance oil for precision machine elements • Tasteless and odourless • Extremely high creep capacity • Displaces water • Dissolves dirt and rust • Washed out of textiles • For use in textile and packaging industry 	 OKS 370: NSF H1 Reg. No. 124382 OKS 371: NSF H1 Reg. No. 124384	colourless white oil	lower operating temperature: -10 °C upper operating temperature: 180 °C density (at 20 °C): 0.88 g/cm ³ viscosity at (40 °C): 14 mm ² /s	5 l Canister 25 l Canister 200 l Drum 400 ml Spray*
OKS 387	High-Temperature Chain Lubricant for the Food Industry		<ul style="list-style-type: none"> • Synthetic lubricant with graphite for strongly loaded lubrication points at extreme temperatures • Reduces wear • Excellent lubricating and emergency running properties • Base oil that evaporates odourlessly and residue-free above +200 °C • Dry lubrication up to +600 °C 	 OKS 387: NSF H1 Reg. No. 126583	black graphite polyglycol	upper operating temperature: 150 °C (liquid lubrication) density (at 20 °C): 1.04 g/cm ³ viscosity at (40 °C): 170 mm ² /s four-ball test rig welding load: 2,800 N	5 l Canister 25 l Canister
OKS 1010/2	Silicone Oil, 1000 cSt		<ul style="list-style-type: none"> • Lubricant and parting agents for plastics and elastomers • Also as damping oil • Neutral with respect to plastics, elastomers or paints • Broad temperature application range • Excellent surface wetting • Resin and acid-free • Viscosity of 1,000 cSt 	 OKS 1010/2: NSF H1 Reg. No. 135921	transparent polydimethylsiloxane	lower operating temperature: -50 °C upper operating temperature: 200 °C density (at 20 °C): 0.96 - 0.97 g/cm ³ viscosity at (25 °C): 1,000 mm ² /s	1 l Bottle 5 l Canister 25 l Canister
OKS 1035/1	Silicone Oil, 350 cSt		<ul style="list-style-type: none"> • Lubricant and parting agents for plastics and elastomers • Also as damping oil • Neutral with respect to plastics, elastomers or paints • Broad temperature application range • Excellent surface wetting • Resin and acid-free • Viscosity of 350 cSt 	 OKS 1035/1: NSF H1 Reg. No. 154506	transparent polydimethylsiloxane	lower operating temperature: -50 °C upper operating temperature: 200 °C density (at 20 °C): 0.96 - 0.97 g/cm ³ viscosity at (25 °C): 350 mm ² /s	1 l Bottle 5 l Canister 25 l Canister 200 l Drum
OKS 3570 OKS 3571*	High-Temperature Chain Oil for Food Processing Technology		<ul style="list-style-type: none"> • Lubrication of chains, hinges, joints, clamping and drying frames or slideways at high temperatures up to 250 °C • Good adhesion on metal surfaces • Excellent water resistance • Excellent oxidation properties • For use in conveying systems, painting, stoving and drying systems of the packaging and food processing industry 	 OKS 3570: NSF H1 Reg. No. 145347 OKS 3571: NSF H1 Reg. No. 147769	yellowish-red synthetic oil	lower operating temperature: -10 °C upper operating temperature: 250 °C density (at 20 °C): 0.87 g/cm ³ viscosity at (40 °C): 320 mm ² /s	5 l Canister 25 l Canister 200 l Drum 400 ml Spray*
OKS 3600 OKS 3601*	Adhesive Oil and High-Performance Corrosion Protection for Food Processing Technology		<ul style="list-style-type: none"> • Excellent corrosion protection of bare machine parts, also for food processing technology • Storage and lubrication under corrosive conditions • Good creep properties • Contains non-ferrous metal deactivator • Shipping protection of metal surfaces, packed and unpacked machines under extreme climatic conditions, industrial atmosphere or at outdoor weathering under roof 	 OKS 3600: NSF H1 Reg. No. 153877 OKS 3601: NSF H1 Reg. No. 154933	yellow-brown polyalphaolefine	lower operating temperature: -40 °C upper operating temperature: 80 °C density (at 20 °C): 0.81 g/cm ³ viscosity at (40 °C): 1.700 mm ² /s / >21.5 mm ² /s (base oil / with solvent) salt spray test: > 100 h / > 300 h (brush application / spray application (max.))	5 l Canister 25 l Canister 400 ml Spray*
OKS 3710 OKS 3711*	Low-Temperature Oil for Food Processing Technology		<ul style="list-style-type: none"> • Fully synthetic oil for permanently low temperatures • Excellent low-temperature behaviour • Optimal additives against oxidation and ageing • Long economic operating times • For use in cold storage houses, shock freezers, etc. 	 OKS 3710: NSF H1 Reg. No. 142477 OKS 3711: NSF H1 Reg. No. 155620	colourless polyalphaolefine	lower operating temperature: -60 °C upper operating temperature: 135 °C density (at 20 °C): 0.8 g/cm ³ viscosity at (40 °C): 7.35 mm ² /s	5 l Canister 25 l Canister 200 l Drum 400 ml Spray*

oils |

NSF-CERTIFIED PRODUCTS FOR FOOD PROCESSING TECHNOLOGY



Oils


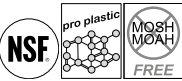


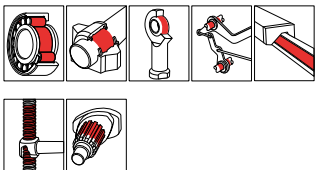

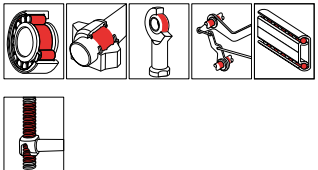
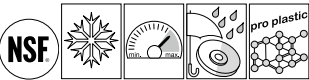
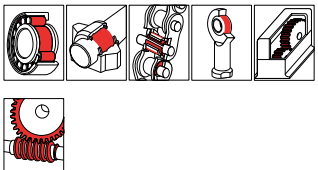

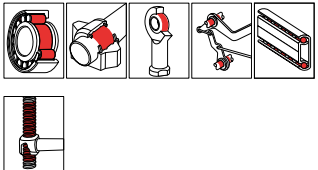
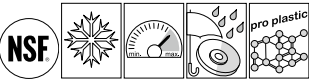
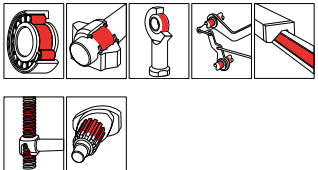

Product	Designation	Fields of Application	Purpose	Properties / Approvals	Main Components	Technical Data	Packaging
OKS 3775	Hydraulic Oil for Food Processing Technology ISO VG 32 DIN 51 502: VDL HC 32, HLP HC 32		<ul style="list-style-type: none">Fully synthetic oil for hydraulic systems, as well as other machine elementsFor screws and multiple vane rotary vacuum pumpsLong operating times due to high temperature and oxidation stabilityGood wear protectionResistant to steam, alkali and acid disinfectants and cleaning agents	 OKS 3775: NSF H1 Reg. No. 143597	colourless polyalphaolefine	lower operating temperature: -45 °C upper operating temperature: 135 °C density (at 20 °C): 0.83 g/cm ³ viscosity at (40 °C): 32 mm ² /s	5 l Canister 25 l Canister 200 l Drum
OKS 3780	Hydraulic Oil for Food Processing Technology ISO VG 68 DIN 51 502: HLP HC 68, VDL HC 68		<ul style="list-style-type: none">Fully synthetic oil for hydraulic systems, as well as other machine elementsFor screws and multiple vane rotary vacuum pumpsLong operating times due to high temperature and oxidation stabilityGood wear protectionResistant to steam, alkali and acid disinfectants and cleaning agents	 OKS 3780: NSF H1 Reg. No. 136036	colourless polyalphaolefine	lower operating temperature: -40 °C upper operating temperature: 135 °C density (at 20 °C): 0.83 g/cm ³ viscosity at (40 °C): 68 mm ² /s	5 l Canister 25 l Canister 200 l Drum
OKS 3790	Sugar-Dissolving Oil, fully synthetic		<ul style="list-style-type: none">For dissolving sugar deposits and cleaning machine partsLubrication of precision mechanismsForming lubricant for packagingGood cleaning and lubrication effectGood wear and corrosion protectionTasteless and odourless emulsionSpecially for use in the sweets industry	 OKS 3790: NSF H1 Reg. No. 128470	colourless water polyglycol	lower operating temperature: -5 °C upper operating temperature: 80 °C density (at 20 °C): 1.06 g/cm ³ viscosity at (40 °C): 20-24 mm ² /s	5 l Canister 25 l Canister

Dry lubricants

Product	Designation	Fields of Application	Purpose	Properties / Approvals	Main Components	Technical Data	Packaging
OKS 536	Graphite Bonded Coating, water-based, air-drying		<ul style="list-style-type: none">Lubrication of heavily loaded chains when oil and grease lubrication is no longer possibleCan be sprayed onto hot surfacesUse in a broad temperature rangeDries at room temperatureSpent sliding film can be topped upCan be diluted with water in ratio of up to 1:5	 OKS 536: NSF H2 Reg. No. 130416	black graphite	lower operating temperature: -35 °C upper operating temperature: 600 °C press-fit test (μ): 0,12, no chatter	5 kg Canister 25 kg Canister

NSF-CERTIFIED PRODUCTS FOR FOOD PROCESSING TECHNOLOGY

Greases

Product	Designation	Fields of Application	Purpose	Properties / Approvals	Main Components	Technical Data	Packaging
OKS 468	Plastic and elastomer adhesive lubricant		<ul style="list-style-type: none"> • Silicone-free lubricant and sealing lubricant for plastic/plastic and plastic/metal combinations • Good elastomer and plastic compatibility • EPDM compatible • Silicone-free, highly adhesive 	 OKS 468: NSF H1 Reg. No. 135591	transparent polyalphaolefine thickener: inorganic	lower operating temperature: -25 °C upper operating temperature: 150 °C viscosity at (40 °C): 1,700 mm²/s (base oil)	1 kg Can 5 kg Hobbock
OKS 469	Plastic and Elastomer Grease		<ul style="list-style-type: none"> • Silicone-free lubricant and sealing lubricant for plastic/plastic and plastic/metal combinations • Good elastomer and plastic compatibility • Silicone-free • Tested for beer foam compatibility 	 OKS 469: NSF H1 Reg. No. 131380 Tested for beer foam compatibility	transparent polyalphaolefine thickener: inorganic	lower operating temperature: -25 °C upper operating temperature: 150 °C viscosity at (40 °C): 400 mm²/s (base oil)	1 kg Can
OKS 470	White Universal High-Performance Grease DIN 51 502: KF2K-30		<ul style="list-style-type: none"> • For heavily loaded rolling and friction bearings, spindles and slideways when dark-coloured lubricants cannot be used • Good pressure properties • Reduces wear • Resistant to ageing and oxidation • Waterproof 	 OKS 470: NSF H2 Reg. No. 137707	white white solid lubricants mineral oil thickener: lithium hydroxystearate	lower operating temperature: -30 °C (≤ 1,400 hPa) upper operating temperature: 120 °C (F50 (A/1500/6000), 100h) consistency: NLGI grade 2 (DIN ISO 2137) viscosity at (40 °C): approx. 110 mm²/s (base oil) four-ball test rig welding load: 3,400 N	80 ml Tube 400 ml Cartridge 1 kg Can 5 kg Hobbock 25 kg Hobbock 180 kg Drum
OKS 472	Low-Temperature Grease for Food Processing Technology DIN 51 502: KHC1K-40		<ul style="list-style-type: none"> • Lubrication of rolling and friction bearings with minimal bearing play and high speeds, at low temperatures as well as low coasting torques • Functionality of the lubricating film up to -70 °C • Reduces wear • Good resistance to ageing and oxidation • For bearings in cold storage houses, ice factories, etc. 	 OKS 472: NSF H1 Reg. No. 135749	whitish ester polyalphaolefine thickener: aluminium-complex soap	lower operating temperature: -45 °C (≤ 1,400 hPa) upper operating temperature: 120 °C (F50 (A/1500/6000), 100h) consistency: NLGI grade 1 (DIN ISO 2137) viscosity at (40 °C): 30 mm²/s (base oil)	400 ml Cartridge 1 kg Can 5 kg Hobbock 25 kg Hobbock
OKS 473	Fluid Grease for food processing technology analogue to DIN 51 502: GPHC00K-40, KPHC00K-40		<ul style="list-style-type: none"> • For closed gears, rolling and friction bearings, joints or chains if grease lubrication is provided for • Also suitable for higher speed, minimal bearing play or slight gear clearance • Reduces wear, waterproof • Can be conveyed well using central lubricating systems 	 OKS 473: NSF H1 Reg. No. 140485	light yellow polyalphaolefine thickener: aluminium-complex soap	lower operating temperature: -45 °C upper operating temperature: 120 °C consistency: NLGI grade 0-00 (DIN ISO 2137) viscosity at (40 °C): 160 mm²/s (base oil)	1 kg Can 5 kg Hobbock 25 kg Hobbock
OKS 475	High-Performance Grease DIN 51 502: KFHC2K-60		<ul style="list-style-type: none"> • For bearings with minimal bearing play and high speeds, at low and high temperatures and for bearings with low coasting torque • Good wear protection through PTFE • Lubrication of components made of glass fibre reinforced plastic • For fast-running bearings in the textile industry, in filling and packaging machines 	 OKS 475: NSF H2 Reg. No. 137708	beige PTFE polyalphaolefine thickener: lithium hydroxystearate	lower operating temperature: -60 °C (≤ 1,400 hPa) upper operating temperature: 120 °C (F50 (A/1500/6000), 100h) consistency: NLGI grade 2 (DIN ISO 2137) viscosity at (40 °C): approx. 30 mm²/s (base oil) four-ball test rig welding load: 2,000 N	400 ml Cartridge 1 kg Can 5 kg Hobbock 25 kg Hobbock 170 kg Drum
OKS 476	Multipurpose Grease for Food Processing Technology analogue to DIN 51 502: KP2K-30		<ul style="list-style-type: none"> • For rolling and friction bearings and other machine elements • Resistant to cold and hot water as well as disinfectants and cleaning agents • Resistance to oxidation • Reduces wear • Multipurpose grease for universal use in food processing technology 	 OKS 476: NSF H1 Reg. No. 137619	white semi-synthetic oil thickener: aluminium-complex soap	lower operating temperature: -30 °C (≤ 1,400 hPa) upper operating temperature: 110 °C consistency: NLGI grade 2 (DIN ISO 2137) viscosity at (40 °C): 240 mm²/s (base oil) four-ball test rig welding load: 2,200 N	400 ml Cartridge 1 kg Can 5 kg Hobbock 25 kg Hobbock 180 kg Drum

Greases

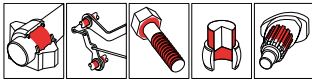
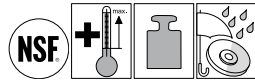
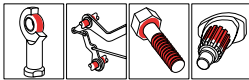
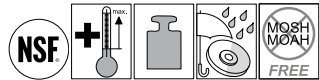
NSF-CERTIFIED PRODUCTS FOR FOOD PROCESSING TECHNOLOGY

Greases

Product	Designation	Fields of Application	Purpose	Properties / Approvals	Main Components	Technical Data	Packaging
OKS 477	Valve Grease for Food Processing Technology		<ul style="list-style-type: none"> Sealing lubrication of adapted sliding surfaces Lubrication of plastics and elastomers Lubrication of slow-running bearings Highly adhesive, seals well Resistant to water and steam Does not affect the quality properties of beer foam Can also be used as sealing grease 	 OKS 477: NSF H1 Reg. No. 135750 Tested for beer foam compatibility UBA guideline (D): test certificate HyCert-2-347253-21-Hy210	light brown polyalphaolefine thickener: silicate	lower operating temperature: -10 °C upper operating temperature: 140 °C consistency: NLGI grade 3 (DIN ISO 2137) viscosity at (40 °C): 1,600 mm ² /s (base oil)	80 ml Tube 1 kg Can 5 kg Hobbock
	DIN 51 502: MHC3N-10						
OKS 478	Plastic and Elastomer Grease		<ul style="list-style-type: none"> Plastic and elastomer grease for plastic/plastic and plastic/metal combinations Silicone-free High shear stability Excellent adhesion on plastics and metals 	 OKS 478: NSF H1 Reg. No. 129960	beige polyalphaolefine thickener: inorganic	lower operating temperature: -40 °C upper operating temperature: 200 °C consistency: NLGI grade 3 (DIN ISO 2137) viscosity at (40 °C): > 1,700 mm ² /s (base oil)	400 ml Cartridge 1 kg Can 5 kg Hobbock 25 kg Hobbock
	analogue to DIN 51 502: MHC3S-40						
OKS 479	High-Temperature Grease for Food Processing Technology		<ul style="list-style-type: none"> Lubrication of rolling and friction bearings at increased operating temperatures Good adhesive strength on metal surfaces Resistant to hot and cold water, water vapour, watery-alkaline and acidic disinfectants and cleaning agents Good resistance to oxidation and ageing For all sections of the food processing, beverage and pharmaceutical industries 	 OKS 479: NSF H1 Reg. No. 135675	beige polyalphaolefine thickener: aluminium-complex soap	lower operating temperature: -35 °C (≤ 1,400 hPa) upper operating temperature: 120 °C (F50 (A/1500/6000), > 100h) consistency: NLGI grade 1 (DIN ISO 2137) viscosity at (40 °C): 360 mm ² /s (base oil)	400 ml Cartridge 1 kg Can 5 kg Hobbock 25 kg Hobbock
	analogue to DIN 51 502: KPHC1K-30						
OKS 480 OKS 481*	Waterproof High-Pressure Grease for Food Processing Technology		<ul style="list-style-type: none"> For heavily loaded rolling and friction bearings in food processing technology Excellent resistance to hot and cold water as well as disinfectants and cleaning agents Excellent corrosion protection High shear, temperature and oxidation stability 	 OKS 480: NSF H1 Reg. No. 148971 OKS 481: NSF H1 Reg. No. 153878	beige polyalphaolefine thickener: calcium sulphonate complex soap	lower operating temperature: -30 °C upper operating temperature: 160 °C consistency: NLGI grade 2 (DIN ISO 2137) viscosity at (40 °C): 100 mm ² /s (base oil) four-ball test rig welding load: 4,000 N	400 ml Cartridge 1 kg Can 5 kg Hobbock 25 kg Hobbock 400 ml Spray*
	analogue to DIN 51 502: KPHC2P-30						
OKS 1110	Multi-Silicone Grease		<ul style="list-style-type: none"> For fittings, seals and plastic parts Resistant to media Excellent compatibility to plastic No drying out or bleeding Highly adhesive, tasteless and odourless Silicone grease for a broad range of applications 	 OKS 1110: NSF H1 Reg. No. 124381 Tested for beer foam compatibility UBA guideline (D): test certificate OFI-1085-0753 ACS-conformity to positive lists (F): test certificate 22 CLP LY 024	transparent polydimethylsiloxane thickener: inorganic	lower operating temperature: -40 °C upper operating temperature: 200 °C consistency: NLGI grade 3 (DIN ISO 2137) viscosity at (40 °C): 9,500 mm ² /s (base oil)	10 ml Tube 80 ml Tube 400 ml Cartridge 4 g Tube 500 g Can 1 kg Can 5 kg Hobbock 25 kg Hobbock 180 kg Drum
	DIN 51 502: MSI3S-40						
OKS 4220	Extreme-Temperature Bearing Grease		<ul style="list-style-type: none"> Long-term lubrication of rolling and friction bearings Excellent temperature resistance Excellent media resistance Excellent plastic and elastomer compatibility Excellent water, steam resistance Excellent wear protection 	 OKS 4220: NSF H1 Reg. No. 124380	white PTFE perfluoropolyether (PFPE) thickener: PTFE	lower operating temperature: -40 °C (< 1,400 hPa) upper operating temperature: 280 °C consistency: NLGI grade 2 (DIN ISO 2137) viscosity at (40 °C): 390 mm ² /s (base oil) four-ball test rig welding load: > 10,000 N	40 ml Tube 500 g Can 800 g Cartridge 1 kg Can 5 kg Hobbock 25 kg Hobbock
	analogue to DIN 51 502: KFFK2U-40						

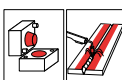
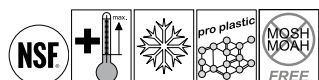






NSF-CERTIFIED PRODUCTS FOR FOOD PROCESSING TECHNOLOGY

Pastes

Product	Designation	Fields of Application	Purpose	Properties / Approvals	Main Components	Technical Data	Packaging
OKS 250	White Allround Paste, metal-free		<ul style="list-style-type: none"> For screws, bolts and sliding surfaces subjected to high pressures and temperatures Metal-free Optimum ratio of tightening torque to achievable pre-tension Excellent corrosion protection Also suitable for stainless-steel connections Use as universal high-temperature paste 	 OKS 250: NSF H2 Reg. No. 131379	white white solid lubricants Mo _x -Active synthetic oil mixture thickener: polycarbamide	lower operating temperature: -40 °C upper operating temperature: 200 °C / 1,400 °C (lubrication / separation) press-fit test (μ): 0,10, no chatter four-ball test rig welding load: 3,600 N thread friction coefficient (μ total): 0.12 / 0.15 (M10: 8.8/10 black-oxide / M10: A2-70/A2-70)	8 ml Tube 80 ml Tube 250 g Brush tin 1 kg Can 5 kg Hobbock 25 kg Hobbock
OKS 252	White High-Temperature Paste for Food Processing Technology		<ul style="list-style-type: none"> Lubrication of screws, bolts and sliding surfaces that are subjected to high pressures, high temperatures at low speeds or oscillating movements Prevents burning together and rusting on Metal-free Highly adhesive Universal high-temperature assembly paste 	 OKS 252: NSF H1 Reg. No. 135748	light grey white solid lubricants polyglycol thickener: silicate	lower operating temperature: -30 °C upper operating temperature: 160 °C / 1,200 °C (lubrication / separation) press-fit test (μ): 0,12, no chatter thread friction coefficient (μ total): 0.12 (M10: A2-70/A2-70)	80 ml Tube 200 g Dispenser 250 g Brush tin 1 kg Can

Maintenance products

Maintenance products

Product	Designation	Fields of Application	Purpose	Properties / Approvals	Main Components	Technical Data	Packaging
OKS 1361	Silicone Release Agent, Spray		<ul style="list-style-type: none"> Parting agent and lubricant for use in processing plastics Chemically neutral Solvent-free Displaces water Fitting aid for rubber profiles Lubrication of cutting edges Care and impregnation of plastic surfaces and textiles 	 OKS 1361: NSF H1 Reg. No. 129481	colourless polydimethylsiloxane	lower operating temperature: -50 °C upper operating temperature: 200 °C	400 ml Spray
OKS 2100	Protective Film for Metals		<ul style="list-style-type: none"> Temporary wax-based corrosion protection film for storage and shipping of machine parts with bare metal surfaces Suitable for all climatic zones Non-tacky, transparent film Easy to remove Good compatibility with lubricants 	 OKS 2100: NSF H2 Reg. No. 142256	light-coloured synthetic wax corrosion protection	lower operating temperature: -40 °C upper operating temperature: 70 °C salt spray test: > 1,000 h (layer thickness 50 μm) optimal layer thickness: 50 μm (DIN 50 982-2)	5 l Canister 25 l Canister 200 l Drum
OKS 2650	Industrial cleaner		<ul style="list-style-type: none"> Aqueous cleaner for removing heavy oily, greasy and sooty soiling Biodegradable Good separation behaviour Gentle to delicate surfaces For universal use in industry, workshop and food processing technology No classification marks according to (EG) No. 1272/2008 	 biodegradability: OECD 301 B: 1992-07 86 % OKS 2650: NSF A1 Reg. No. 129003	red silicates non-ionic surfactants	density (at 20 °C): 1.04 g/cm ³ pH value: 10.7 (concentrate)	500 ml Pump sprayer 1 l Bottle 5 l Canister 25 l Canister 200 l Drum 1000 l container
OKS 2670 OKS 2671*	Intensive Cleaner for the Food Processing Industry		<ul style="list-style-type: none"> For removing aged and gummy oil and grease residues For dissolving silicone and adhesive residues Evaporates quickly and residue-free High cleaning action Good compatibility to common plastics For use in the food processing, livestock feed and pharmaceutical industries 	 OKS 2670: NSF K1, K3 Reg.- Nr. 149997 OKS 2671: NSF K1, K3 Reg. No. 149998	colourless	density (at 20 °C): 0.78 g/cm ³	5 l Canister 25 l Canister 400 ml Spray*

LEADING BRANDS RELY ON OKS



Convince yourself based on practical experience reports on the use of OKS speciality lubricants.

Specialities from the Allgäu region (1)

Since 1909 the logo with the three button mushrooms (champignons) has stood for high-quality dairy products. Today the Hofmeister corporate group is one of the leading suppliers of milk and cheese specialities – both in Germany and internationally. Familiar brands like Cambozola, Rougette and Champignon Camembert stand for the success of the Champignon cheese dairy. A decisive factor in this success is also the orientation toward the strictest hygiene standards. The use of gear oils in production – like OKS 3720, OKS 3730 and OKS 3740 – ensures compliance with all hygiene standards.

Precision under the toughest everyday conditions (2)

Highly sensitive weighing technology and precision electronics, packaged in rugged industrial hardware – these are the weighing systems from METTLER-TOLEDO. Systems that weigh precisely and reliably, despite extreme working conditions like high moisture levels and temperature fluctuations. Due to these environmental influences, METTLER protects

its products from harmful corrosion – with OKS 370. Thanks to the excellent capillary property of the oil, even poorly accessible areas are shielded from jet water and high-pressure steam. At the same time, cleaning with OKS 370 renews the protective film.

Systems and speciality machines for cheese production and care (3)

“We perfect with high-tech engineering, what nature has entrusted us with”, is the motto of the Swiss company LEU Anlagenbau AG. In the process, the specialist for cheese care robots, cleaning machines, conveyor systems and special designs always has the extremely difficult external conditions of its customers in mind. Because salty air, sensitive cultures and high humidity place very special technical and hygienic demands on machines and lubricants during cheese storage and care. OKS 3751 has proven itself here for the lubrication of chains and guides for many years now.

- 1 Champignon cheese dairy, Hofmeister GmbH & Co. KG
2 Weighing systems from METTLER-TOLEDO
3 Speciality machines from LEU Anlagenbau AG



THE STEP TO MORE SAFETY



How to change from conventional lubricant to lubricant approved for use in food processing.

We recommend changing over during a regular service shut-down. All parts to be lubricated must be cleaned and checked for residue-free cleanliness. A cleaner approved for use with food processing technology is suitable for cleaning (e.g. OKS 2650 with NSF A1 registration) or a residue-free evaporating cleaner (e.g. OKS 2670/2671 with NSF K1/K3 registration). The limits required for the respective system must be defined at critical inspection points in accordance with the HACCP method.

Change with oil lubrication

The oil should be at operating temperature during draining if possible. After the oil has been drained, experience shows that used oil, wear particles and oxidation products amounting to approx. 10 % of the filling capacity remain in the system. Then the system should be thoroughly cleaned. Special attention should be paid to tanks, central lubricating circuits, gearboxes etc.

Then the corresponding operating oil is poured in and the system is operated at normal working temperature. To reduce contamination of the NSF-registered new lubricant, it is advisable to use a cleaning oil.

Change with grease lubrication

Following cleaning, the system is filled with the required quantity of the corresponding OKS grease. Should it not be possible to dismantle and clean the system, relubrication can also be carried out with the new grease. Then the regreasing interval must be shortened in comparison to the usual regreasing period to press out the old grease. Please make sure the bearings are not overfilled and that the used grease can be channelled off. In addition, it must be ensured that the new lubricant is compatible with the old one.

Oils

Greases

Dry Lubricants

Pastes

Maintenance Products

Our responsibility – Sustainable business for our customers and the environment

Our sustainability concept is based on the sustainability strategy of the Freudenberg Group. With its values and principles, it defines sustainability as a key pillar of our corporate culture and an integral part of our economic and social environment.

Responsibility

We source the basic and raw materials for our products from all over the world and deliver our products to every corner of the globe, too. This is why we believe our responsibility stretches far beyond the immediate vicinity of our company headquarters in Maisach, Germany. We consistently apply our own code of conduct and a dedicated supplier selection system with clear requirements for ethical and regulatory conformity. We see compliance with our industry's regulatory requirements as a binding obligation, just like our basic ethical principles.

Safety

Safety lies at the heart of our process design and product development. Ensuring the safety of people is always our foremost concern, regardless of whether they work for OKS or with OKS products.

However, our understanding of safety also includes potential environmental impacts which arise during the creation or use of our products.

Improvement

We set clear goals for better sustainability. We define parameters and measure them regularly to record improvements and, where necessary, work even more intensely on making things better.

Value chain

We always contemplate our entire value chain to improve processes that contribute to issues such as resource conservation or environmental sustainability. The same applies to the users of our products. We help them to achieve their own sustainability goals, for instance through:

- Energy saving and emissions reduction
- Resource efficiency and optimisation of maintenance cycles
- Reduction of consumption and waste quantities

Footprint and handprint

Our aim is to minimise any potentially negative impact of our actions, in other words, the direct effects of our business activity on the environment and society.

This is how we define our **footprint**.

We support our customers and the users of our products with regard to their own sustainable actions. We help them to produce more efficiently and reduce negative effects on the environment.

This is what we call our **handprint**.

One major goal we're pursuing is reducing the CO₂ footprint and handprint of our products.



OKS sustainability report
available for download:



High-efficiency lubricants for a sustainable handprint

Reduced resource usage is not only positive for our own footprint, but for that of our customers as well. A user who can use products on a renewable basis reduces their ecological footprint and can also worry less about the disposal of used lubricants.

When we offer modern lubricants whose range of performance is far above that of conventional lubricants, it not only reduces the amount of lubricant used, but also comes along with tangible economical benefits for the user:

- **High energy efficiency**
- **A longer operating period**
- **Less machine downtime**
- **Reduced maintenance expenditure**

Handprint example

Pinpoint chain lubrication with high-performance lube oil

High-efficiency chain oils not only ensure less wear and reliable chain function, but also reduce friction between chain links. This reduces the bearing pressure of the chain and leads to a reduction in the associated emissions, depending on the type of energy used.



Sustainability at OKS at a glance

Improve footprint

through sustainable management of the value creation chain

Further develop our handprint

for the benefit of our customers

Use resources efficiently

through the reduced usage of resources and the utilisation of renewable raw materials

Avoid critical raw materials

to ensure a non-critical work environment

Promote safety

for the environment, users and our employees

Define (measure) parameters

to check and continually improve our footprint and handprint



www.oks-germany.com

Over 165 high-performance products from one supplier



- **Pastes** for easy assembly and disassembly
- **Oils** with high-performance additives for reliable lubrication
- **Greases** for long-term lubrication under critical operation conditions
- **Dry Lubricants** – the alternative for special application cases
- **Corrosion protection** for reliable preservation during storage and shipping
- **Maintenance Products** for ongoing service
- **Cleaners** for thorough removal of soiling and lubricant residues

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CONSULTING AND SALES

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