


emka[®]

Quality engineered in Germany

INDUSTRY
2023/24 
STANDARD LUBRICANTS





STANDARD LUBRICANTS FOR INDUSTRY

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High performance hydraulic oil HLP Range 32, 46, 68



EP alloyed hydraulic fluid

The oils in the high performance HLP range are classic HLP hydraulic oils. These EP-alloyed mineral oils possess a high natural viscosity index, good air separation characteristics and water separation properties and provide excellent wear protection and corrosion protection. They are considered to be high quality paraffin-based solvent refined oils with anti-corrosive, anti-foaming and anti-oxidation additives which have been specifically designed for modern hydraulic systems and therefore have a wide range of applications within the entire industry. They can be utilised for all lifting equipment in commercial vehicles, devices and appliances, precision hydraulics in machine tools, hydraulic regulators or controllers and torque converters, as well as for all hydraulic systems where HLP rated pressure fluids are specified. The viscosity specifications of the machine manufacturer must be observed.

Can be used with:

DIN 51524 Teil 2 / ISO 6743-4 / ISO 11158-HM; FZG-Test A 8,3/90 10;
Bosch Rexroth RE 90220-01 / Bumech (HLP 46 / HLP 68); Denison HF2 / HF1 / HF0 / FAMUR (HLP 68); MAG / Cincinnati Maschine P-68 / P-69 / P-70;
ZETOR (Proxima, Proxima Plus, Proxima Power, Forterra / HLP 32 / HLP 46)

HLP 32		VPE
Art.-Nr. 2176030	20 Litre	1
Art.-Nr. 2176020	60 Litre	1
Art.-Nr. 2176010	205 Litre	1
Art.-Nr. 2176000	Tankware	1

HLP 46		VPE
Art.-Nr. 2177030	20 Litre	1
Art.-Nr. 2177020	60 Litre	1
Art.-Nr. 2177010	205 Litre	1
Art.-Nr. 2177000	Tankware	1

HLP 68		VPE
Art.-Nr. 2178030	20 Litre	1
Art.-Nr. 2178020	60 Litre	1
Art.-Nr. 2178010	205 Litre	1
Art.-Nr. 2178000	Tankware	1

Hydrostar HLP Range 10, 15, 22, 32, 46, 68, 100, 150



High performance hydraulic fluid

The oils available in the Hydrostar HLP range are high-quality hydraulic oils, made from solvent-refined base oils with a high natural viscosity index and effective additives. The excellent air separating capacity and water separating capacity, which largely eliminates foam formation, and the excellent wear and corrosion protection are what characterise these oils. Ideally suited for utilisation in modern hydraulic systems throughout the whole industry, for all lifting devices in commercial vehicles, devices and equipment, hydraulic regulators and torque converters, as well as for all hydraulic systems whereby pressurised fluids according to the HLP classification have been specified. The product can be utilised as a lubricating oil for spur gears or as a circulating lubricating oil for plain bearings and roller bearings because of its inherent, excellent wear protection characteristics. The viscosity specifications of the machine manufacturer must always be observed.

Can be used with:

DIN 51524 Teil 2 Typ HLP; ISO 11158 HM; ASTM D6158 HM; VDMA 24318-HLP; Bosch Rexroth RE 90220; Eaton E-FDGN-TB002-E; Eickhoff; Fives Cincinnati P-70; FZG Test A/8.3/90: Load Stage 12; JCMAS HK; Komatsu HPV35+35 Pumpentest; PALFINGER; Parker Denison HF-0; Voith 3625-006208/006209; Demag; Dynex; Engel; Husky; Hydreco; Krauss-Maffei; Netstal; Oilgear; Racine; Raymond Gabelstapler und Hubwagen; Sauer-Danfoss; Soplax; US Steel 127/136

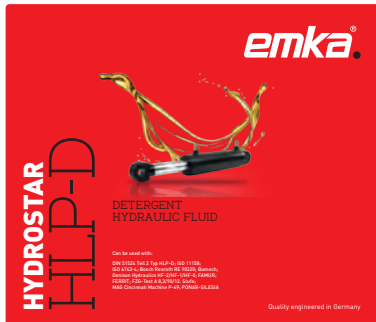
HLP 10			HLP 15		
Art.-Nr.	Volume	VPE	Art.-Nr.	Volume	VPE
Art.-Nr. 2173030	20 Litre	1	Art.-Nr. 2174030	20 Litre	1
Art.-Nr. 2173020	60 Litre	1	Art.-Nr. 2174020	60 Litre	1
Art.-Nr. 2173010	205 Litre	1	Art.-Nr. 2174010	205 Litre	1
Art.-Nr. 2173000	Tankware	1			

HLP 22			HLP 32		
Art.-Nr.	Volume	VPE	Art.-Nr.	Volume	VPE
Art.-Nr. 2175030	20 Litre	1	Art.-Nr. 2176030	20 Litre	1
Art.-Nr. 2175020	60 Litre	1	Art.-Nr. 2176020	60 Litre	1
Art.-Nr. 2175010	205 Litre	1	Art.-Nr. 2176010	205 Litre	1
Art.-Nr. 2175000	Tankware	1	Art.-Nr. 2176000	Tankware	1

HLP 46			HLP 68		
Art.-Nr.	Volume	VPE	Art.-Nr.	Volume	VPE
Art.-Nr. 2177030	20 Litre	1	Art.-Nr. 2178030	20 Litre	1
Art.-Nr. 2177020	60 Litre	1	Art.-Nr. 2178020	60 Litre	1
Art.-Nr. 2177010	205 Litre	1	Art.-Nr. 2178010	205 Litre	1
Art.-Nr. 2177000	Tankware	1	Art.-Nr. 2178000	Tankware	1

HLP 100			HLP 150		
Art.-Nr.	Volume	VPE	Art.-Nr.	Volume	VPE
Art.-Nr. 2179030	20 Litre	1	Art.-Nr. 2180030	20 Litre	1
Art.-Nr. 2179020	60 Litre	1	Art.-Nr. 2180020	60 Litre	1
Art.-Nr. 2179010	205 Litre	1	Art.-Nr. 2180010	205 Litre	1
Art.-Nr. 2179000	Tankware	1	Art.-Nr. 2180000	Tankware	1

Hydrostar HLP-D Range 10, 22, 32, 46, 68, 100



Detergent hydraulic fluid

The oils available in the Hydrostar HLP-D range are high-quality hydraulic oils, made from solvent-refined base oils with a high natural viscosity index and effective additives. The excellent air separating capacity and water separating capacity, which largely eliminates foam formation, and the excellent wear and corrosion protection are what characterise these oils. Ideally suited for utilisation in modern hydraulic systems throughout the whole industry, for all lifting devices in commercial vehicles, devices and equipment, hydraulic regulators and torque converters, as well as for all hydraulic systems.

Particularly suitable for systems which are intended to be operated outdoors and where contamination with condensate water can be calculated for.

The viscosity specifications of the machine manufacturer must always be observed.

Can be used with:

DIN 51524 Teil 2 Typ HLP-D; ISO 11158; ISO 6743-4; Bosch Rexroth RE 90220; Bumech; Denison Hydraulics HF-2/HF-1/HF-0; FAMUR; FERRIT; FZG-Test A 8,3/90/12. Stufe; MAG Cincinnati Machine P-69; PONAR-SILESIA

HLP-D 10			HLP-D 22		
Art.-Nr.	Volume	VPE	Art.-Nr.	Volume	VPE
Art.-Nr. 2143030	20 Litre	1	Art.-Nr. 2145030	20 Litre	1
Art.-Nr. 2143020	60 Litre	1	Art.-Nr. 2145020	60 Litre	1
Art.-Nr. 2143010	205 Litre	1	Art.-Nr. 2145010	205 Litre	1
Art.-Nr. 2143000	Tankware	1	Art.-Nr. 2145000	Tankware	1

HLP-D 32			HLP-D 46		
Art.-Nr.	Volume	VPE	Art.-Nr.	Volume	VPE
Art.-Nr. 2146030	20 Litre	1	Art.-Nr. 2147030	20 Litre	1
Art.-Nr. 2146020	60 Litre	1	Art.-Nr. 2147020	60 Litre	1
Art.-Nr. 2146010	205 Litre	1	Art.-Nr. 2147010	205 Litre	1
Art.-Nr. 2146000	Tankware	1	Art.-Nr. 2147000	Tankware	1

HLP-D 68			HLP-D 100		
Art.-Nr.	Volume	VPE	Art.-Nr.	Volume	VPE
Art.-Nr. 2148030	20 Litre	1	Art.-Nr. 2149020	60 Litre	1
Art.-Nr. 2148020	60 Litre	1	Art.-Nr. 2149010	205 Litre	1
Art.-Nr. 2148010	205 Litre	1			
Art.-Nr. 2148000	Tankware	1			

Hydrostar MW-B 46



Zinc-free hydraulic oil for industry with high Brugger value > 50

Hydrostar MW-B 46 is classified as a detergent-active/dispersant zinc-free and ash-free hydraulic oil and circulating oil with a special and state-of-the-art wear protection additive technology (high Brugger value!), mainly for utilisation in precision metalworking machinery but also in sensitive hydraulic servo systems. The excellent air separating capacity and water separating capacity, which largely eliminates foam formation, and the excellent corrosion protection, as well as the possibility of very fine filtration, are what characterise these oils. It is particularly suitable for centrally-operated supply systems due to its high dirt-retaining capacity.

Can be used with:

DIN 51524 Teil 2 HLP; ISO 11158 HM; ISO 6743/4 HM; Arburg HLP VG 46 (ZAF); Müller Weingarten; Schuler; FZG Test A/8.3/90: Load Stage >12

			VPE		
Art.-Nr.	Volume	VPE	Art.-Nr.	Volume	VPE
Art.-Nr. 2142020	60 Litre	1	Art.-Nr. 2142000	Tankware	1
Art.-Nr. 2142010	205 Litre	1			

Hydrostar ZAF Range 46, 68



Zinc-free hydraulic fluid

Hydrostar ZAF is a zinc-free hydraulic fluid based on modern base oils and additives for mobile and stationary hydraulic drives. Its very low flow point of -27 °C means that it indicates excellent cold start behaviour. Special highly effective additives dissolve impurities and retain them in suspension, therefore keeping hydraulic systems and their functional elements free of deposits or build up. It can be fully utilised in all hydraulic systems where HVLP, HLP and HL type hydraulic oils are required.

Can be used with:

DIN 51524 Teil 3 HVLP 32; DIN 51524 Teil 2 HLP 32; FZG-Test >12; Eaton (Vickers) M-2950-S/I-286 S/03-401-2010 – 35VQ25A; Parker Denison HF-0/HF-1/HF-2; Bosch Rexroth RE 90220-01; MAG/Cincinnati Machine P-70

Hydrostar ZAF 46			Hydrostar ZAF 68		
Art.-Nr.	Volume	VPE	Art.-Nr.	Volume	VPE
Art.-Nr. 2247030	20 Litre	1	Art.-Nr. 2248030	20 Litre	1
Art.-Nr. 2247020	60 Litre	1	Art.-Nr. 2248020	60 Litre	1
Art.-Nr. 2247010	205 Litre	1	Art.-Nr. 2248010	205 Litre	1
Art.-Nr. 2247000	Tankware	1	Art.-Nr. 2248000	Tankware	1

Hydrostar ZAF-D Range 32, 46



Zinc-free, detergent-type hydraulic fluid

The oils available in the Hydrostar ZAF-D series are high-quality zinc-free hydraulic oils based on paraffin-based base oils and the latest additive technology, thereby providing them with high thermal and oxidative resistance as well as excellent wear protection characteristics. The excellent air and water separation capacity, which largely eliminates foam formation, and the excellent corrosion protection therefore characterise these oils. The oils are utilised for applications in hydraulic systems (especially suitable for systems which have to be operated outdoors and where condensation water must be expected as contamination), presses and also machine tools. The products may also be utilised in hydraulic systems which contain silver or silver-plated components and operating elements. The viscosity specifications of the machine manufacturer must always be observed.

Can be used with:

DIN 51524 Teil 2 HLP-D 32/46; ISO 11158; ISO 6743/4 HM; AFNOR NF E 48-603 HM; AIST 126+136; Bosch Rexroth RE 90220-01; Eaton (Vickers) M-2950-S/I-286 S/03-401-2010- 35VQ25A; MAG/Cincinnati Machine P-70; Parker Denison HF-0/HF-1/HF-2; SEB 181222; SIS SS 155434; FZG Test A/8.3/90; Load Stage 12

Hydrostar ZAF-D 32		
Art.-Nr.	Volume	VPE
Art.-Nr. 2256010	205 Litre	1
Art.-Nr. 2256000	Tankware	1

Hydrostar ZAF-D 46		
Art.-Nr.	Volume	VPE
Art.-Nr. 2257020	60 Litre	1
Art.-Nr. 2257010	205 Litre	1
Art.-Nr. 2257000	Tankware	1

Hydrostar HVLP Range 32, 46, 68



Hydraulic fluid for hydraulic drives outdoors

The shear-stable oils of the Hydrostar HVLP range are high-quality hydraulic oils, based on paraffinic base oils with a high natural viscosity index and state-of-the-art additive technology. The excellent air separating capacity and water separating capacity, which largely eliminates foam formation, and the excellent wear and corrosion protection are what characterise these oils. Due to its high shear stability, it is preferably utilised in modern hydraulic systems under harsh, severe conditions and also thermal conditions. Due to its low flow point of -39°C and the high viscosity index of 155 (VI), it indicates excellent cold-start behaviour and enables utilisation in a wide temperature range. The viscosity specifications of the machine manufacturer must always be observed.

Can be used with:

DIN 51524 Teil 3 HVLP 32; ISO 11158 HV / ASTM D 6158 HV;
AFNOR NF E 48-603 HV; Cincinnati Maschine P-70; Denison HF-0/HF-1/HF-2;
Eaton Brochure 694 for 35VQ25A; Eaton Vickers I-286 S; GM LS-2

HVLP 32			HVLP 46		
Art.-Nr.	Volume	VPE	Art.-Nr.	Volume	VPE
Art.-Nr. 2126330	20 Litre	1	Art.-Nr. 2126030	20 Litre	1
Art.-Nr. 2126320	60 Litre	1	Art.-Nr. 2126020	60 Litre	1
Art.-Nr. 2126310	205 Litre	1	Art.-Nr. 2126010	205 Litre	1
Art.-Nr. 2126300	Tankware	1	Art.-Nr. 2126000	Tankware	1

HVLP 68		
Art.-Nr.	Volume	VPE
Art.-Nr. 2126530	20 Litre	1
Art.-Nr. 2126520	60 Litre	1
Art.-Nr. 2126510	205 Litre	1
Art.-Nr. 2126500	Tankware	1

Hydrostar HVLP-D Range 32, 46, 68



Hydraulic oil for hydraulic oil drive units utilised outdoors

Hydrostar HVLP-D is a hydraulic fluid which is based on modern base oils and additives for (mobile) hydraulic equipment or devices which are mainly operated outdoors. Its very low flow point of -39°C means that it indicates excellent cold start behaviour. Detergent-type agents and dispersing agents dissolve impurities and thereby retain them in suspension, therefore keeping hydraulic systems and their functional elements free of deposits. Penetrating water is emulsified by Hydrostar HVLP-D. The high viscosity index of 155 (VI) enables utilisation over a wide temperature range.

Can be used with:

DIN 51524 Teil 3 HVLP-D 32/46/68; DIN 51524 Teil 2 HLP-D 32/46/68;
FZG-Test A 8,3/90 12

Hydrostar HVLP-D 32			Hydrostar HVLP-D 46		
Art.-Nr.	Volume	VPE	Art.-Nr.	Volume	VPE
Art.-Nr. 2128330	20 Litre	1	Art.-Nr. 2128430	20 Litre	1
Art.-Nr. 2128320	60 Litre	1	Art.-Nr. 2128420	60 Litre	1
Art.-Nr. 2128310	205 Litre	1	Art.-Nr. 2128410	205 Litre	1
Art.-Nr. 2128300	Tankware	1	Art.-Nr. 2128400	Tankware	1

Hydrostar HVLP-D 68		
Art.-Nr.	Volume	VPE
Art.-Nr. 2128230	20 Litre	1
Art.-Nr. 2128220	60 Litre	1
Art.-Nr. 2128210	205 Litre	1
Art.-Nr. 2128200	Tankware	1

Hydrostar HVI-D 1032



Detergent-type multigrade hydraulic oil

Hydrostar HVI-D 1032 impresses with its performance capability in heavy duty operations in machinery for construction/forestry and agriculture. Its high viscosity index (>230) and its extraordinary cold flow behaviour, caused by the very low stock point, enables the trouble-free utilisation in a very wide temperature range. A higher wear protection and corrosion protection is guaranteed under high loads in all operating statuses. Particularly suitable for systems which are intended to be operated outdoors and where contamination with condensate water can be calculated for. The product must not be utilised in hydraulic systems which contain silver or silver-plated components and operating elements.

Can be used with:

API GL-4/GL-5/ MT-1; SAE J2360; MAN 342 Typ M2; MAN 341 Typ E2/Z2; ZF TE-ML 02B/05A/12L/16B/17B/19B/21A

			VPE		VPE	
Art.-Nr. 2124030	20 Litre	1	Art.-Nr. 2124010	205 Litre	1	
Art.-Nr. 2124020	60 Litre	1	Art.-Nr. 2124000	Tankware	1	

Hydrostar HVI-D 2268



Detergent-type multigrade hydraulic oil

Hydrostar HVI-D 2268 impresses with its performance capability in heavy duty operations in machinery for construction/forestry and agriculture. Its high viscosity index (>190) and its extraordinary cold flow behaviour, caused by the very low pour point, enables the trouble-free utilisation in a very wide temperature range. Warm running phases and cold running phases are thereby eliminated and enable fuel reductions and time savings with maximum performance of the hydraulic components. A higher wear protection and corrosion protection is guaranteed under high loads in all operating statuses. Particularly suitable for systems which are intended to be operated outdoors and where contamination with condensate water can be calculated for. The product must not be utilised in hydraulic systems which contain silver or silver-plated components and operating elements.

Can be used with:

DIN 51524 Teil 3 HVL-P-D 22/32/46/68; DIN 51524 Teil 2 HLP-D 22/32/46/68; DIN 13357 T1/T2; ISO 11158 HV/6743-4 HV; AFNOR NF E 48-603 HV; ASTM D6158 HV; Denison HF-2/HF-1/HF-0; Eaton Sperry Vickers I-286-S/M-2950-S; FZG Test A/8.3/90: Lastkraftstufe 12

			VPE		VPE	
Art.-Nr. 2128130	20 Litre	1	Art.-Nr. 2128110	205 Litre	1	
Art.-Nr. 2128120	60 Litre	1				

Hydrostar HVI 1032



Multi-purpose hydraulic oil

Hydrostar HVI 1032 impresses with its performance capability in heavy duty operations in machinery for construction/forestry and agriculture. Its high viscosity index (>230) and its extraordinary cold flow behaviour, caused by the very low pour point, enables the trouble-free utilisation in a very wide temperature range. A higher wear protection and corrosion protection is guaranteed under high loads in all operating statuses. The product must not be utilised in hydraulic systems which contain silver or silver-plated components and operating elements.

Can be used with:

DIN 51524 Teil 3 HVL-P 10/15/22/32; DIN 51524 Teil 2 HLP 10/15/22/32; DIN 13357 T1/T2; ISO 11158 HV/6743-4 HV; AFNOR NF E 48-603 HV; ASTM D6158 HV; Denison HF-2/HF-1/HF-0; Eaton Sperry Vickers I-286-S/M-2950-S; FZG Test A/8.3/90: Lastkraftstufe 12

			VPE		VPE	
Art.-Nr. 2125030	20 Litre	1	Art.-Nr. 2125010	205 Litre	1	
Art.-Nr. 2125020	60 Litre	1	Art.-Nr. 2125000	Tankware	1	

Hydrostar HVI 2268



Multi-purpose hydraulic oil

Hydrostar HVI 2268 impresses with its performance capability in heavy duty operations in machinery for construction/forestry and agriculture. Its high viscosity index and its extraordinary cold flow behaviour, caused by the very low pour point, enables the trouble-free utilisation in a very wide temperature range. Warm running phases and cold running phases are thereby eliminated and this enables fuel reductions and time savings with maximum performance of the hydraulic components and simultaneous increase in efficiency. A higher wear protection and corrosion protection is guaranteed under high loads in all operating statuses. The product must not be utilised in hydraulic systems which contain silver or silver-plated components and operating elements. The product has been coloured blue to enable identification and as a quality feature for preventing any possible confusion.

Can be used with:

DIN 51524 Teil 3 HVLP 22/32/46/68; DIN 51524 Teil 2 HLP 22/32/46/68; DIN 13357 T1/T2; ISO 11158 HV/6743-4 HV; AFNOR NF E 48-603 HV; ASTM D6158; CETOP RP 91H-HV; Denison HF-2/HF-1/HF-0; Eaton Sperry Vickers I-286-S/M-2950-S; General Motors LH-04-1; US Steel 127/136; FZG Test A/8.3/90: Lastkraftstufe 12

		VPE			VPE
Art.-Nr. 2127030	20 Litre	1	Art.-Nr. 2127010	205 Litre	1
Art.-Nr. 2127020	60 Litre	1	Art.-Nr. 2127000	Tankware	1

Hydrostar HVI 32100



Multi-purpose hydraulic oil

Hydrostar HVI 32100 impresses with its performance capability in heavy duty operations in machinery for construction/forestry and agriculture. Its high, natural viscosity index and its extraordinary cold flow behaviour, caused by the very low pour point, enables the trouble-free utilisation in a very wide temperature range. A higher wear protection and corrosion protection is guaranteed under high loads in all operating statuses. Hydrostar HVI 32100 can be cleaned in the process through fine filtration without the active integral ingredients being lost.

Can be used with:

DIN 51524 Teil 3 HVLP 32/46/68/100; DIN 51524 Teil 2 HLP 32/46/68/100; ASTM D6158 HV; ISO 11158 HV; AFNOR NF E 48-603 HV | AIST 126+127; SAE MS1004; GM LS 2; FZG Test A/8.3/90: Lastkraftstufe 12

		VPE			VPE
Art.-Nr. 2128030	20 Litre	1	Art.-Nr. 2128010	205 Litre	1
Art.-Nr. 2128020	60 Litre	1	Art.-Nr. 2128000	Tankware	1

Emkomas LD 10



Flushing oil for circulation systems

Emkomas LD 10 is a flushing oil for circulation systems/hydraulics with a pronounced cleaning capability and dirt carrying capacity. The product is especially recommended for the removal of sticking/adhering on control elements (valves etc.), also due to penetrating cooling lubricants in circulating lubrication systems and hydraulics. The machinery/systems can still therefore be utilised to their full extent during the cleaning process. It is recommended that an oil change is executed as soon as all the contamination has been dissolved. If there is heavy contamination present, then a second flushing should also be executed.

Can be used with:

DIN 51502 – HLPD 46; DIN 51524-2: HLP 46 (Ausnahme: Demulgierverhalten); ISO 6743-4: HM 46

			VPE		VPE	
Art.-Nr. 2270030	20 Litre	1	Art.-Nr. 2270010	205 Litre	1	
Art.-Nr. 2270020	60 Litre	1	Art.-Nr. 2270000	Tankware	1	

Emkomas MR Range 2, 5, 10, 22, 32, 46, 68, 100, 150



Multi-purpose oils for bearings, spindles, gears, gearboxes and hydraulics, ISO VG 2 to 150

Emkomas MR multi-purpose oils are high-quality paraffin-based solvent refined products which, with their anti-corrosive, anti-foaming and anti-oxidation additives, are specially tailored to modern hydraulic systems and gear systems. Emkomas MR oils are suitable for utilisation for bearing lubricating and circulation lubrication as well as for all precision hydraulics in commercial vehicles, devices and equipment, machine tools (also spindle lubrication), hydraulic controllers and torque converters as well as in all hydraulic systems where pressure fluids according to HLP classification are required.

Can be used with:

DIN 51524 Teil 2; ISO 6743-4: HM

Emkomas MR 2			VPE		Emkomas MR 5			VPE	
Art.-Nr. 3110030	20 Litre	1	Art.-Nr. 3112030	20 Litre	1				
Art.-Nr. 3110020	60 Litre	1	Art.-Nr. 3112020	60 Litre	1				
Art.-Nr. 3110010	205 Litre	1	Art.-Nr. 3112010	205 Litre	1				
Art.-Nr. 3110000	Tankware	1	Art.-Nr. 3112000	Tankware	1				

Emkomas MR 10			VPE		Emkomas MR 22			VPE	
Art.-Nr. 3113030	20 Litre	1	Art.-Nr. 3115030	20 Litre	1				
Art.-Nr. 3113020	60 Litre	1	Art.-Nr. 3115020	60 Litre	1				
Art.-Nr. 3113010	205 Litre	1	Art.-Nr. 3115010	205 Litre	1				
Art.-Nr. 3113000	Tankware	1	Art.-Nr. 3115000	Tankware	1				

Emkomas MR 32			VPE		Emkomas MR 46			VPE	
Art.-Nr. 3116030	20 Litre	1	Art.-Nr. 3117030	20 Litre	1				
Art.-Nr. 3116020	60 Litre	1	Art.-Nr. 3117020	60 Litre	1				
Art.-Nr. 3116010	205 Litre	1	Art.-Nr. 3117010	205 Litre	1				
Art.-Nr. 3116000	Tankware	1	Art.-Nr. 3117000	Tankware	1				

Emkomas MR 68			VPE	
Art.-Nr. 3118030	20 Litre	1		
Art.-Nr. 3118020	60 Litre	1		
Art.-Nr. 3118010	205 Litre	1		
Art.-Nr. 3118000	Tankware	1		

Emkomas MR 100			VPE	
Art.-Nr. 3119030	20 Litre	1		
Art.-Nr. 3119020	60 Litre	1		
Art.-Nr. 3119010	205 Litre	1		
Art.-Nr. 3119000	Tankware	1		

Emkomas MR 150			VPE	
Art.-Nr. 3120030	20 Litre	1		
Art.-Nr. 3120020	60 Litre	1		
Art.-Nr. 3120010	205 Litre	1		
Art.-Nr. 3120000	Tankware	1		

Emkomas FUC VG 32



Detergent-type high-performance multigrade oil

Emkomas FUC VG 32 replaces the traditional HLP-D hydraulic oils and CLP gear oils. These EP-alloyed mineral oils possess a high natural viscosity index, good cleaning capability, air separation characteristics and water separation properties and provide excellent wear protection and corrosion protection. Also suitable as spindle protection oil, running-in or corrosion protection oil. Emkomas FUC VG 32 multi-purpose oils are high-quality paraffin-based solvent refined product which, with its anti-corrosive, anti-foaming supplements and anti-oxidation additives, has been specially tailored to modern hydraulic systems and gear systems.

Can be used with:

DIN 51524 Teil 2 / Demulgiervermögen DIN 51 599; Hydrauliköl HLP; Getriebeöl CLP; DIN 51517 Teil 3; Klasse ISO 6743-4 HM; NF E 48.600; 12.Laststufe; FZG-Test A 8,3/90

		VPE			VPE
Art.-Nr. 3122030	20 Litre	1	Art.-Nr. 3122010	205 Litre	1
Art.-Nr. 3122020	60 Litre	1	Art.-Nr. 3122000	Tankware	1

Emkomas MRX 1032



Viscosity optimised and temperature optimised multi-purpose oil for bearings/spindles/gears/hydraulics

Emkomas MRX 1032 is a high quality, viscosity optimised and operating temperature optimised multi-purpose lubricating oil with anti-corrosive, anti-foaming and oxidation inhibiting additives, which has been specially tailored to modern hydraulic systems, gearboxes, gears and transmission systems. It can be utilised for bearing lubricating and circulation lubrication as well as for all precision hydraulics in commercial vehicles, devices and equipment, machine tools (also spindle lubrication), hydraulic regulators or controllers and torque converters as well as in all hydraulic systems where pressure fluids according to HVLP/HLP classification are required.

Can be used with:

DIN 51524 Teil 3 HVLP 10/15/22/32 HV; Teil 2 HLP 10/15/22/32 HM; DIN 13357 Teil2/1; ISO 6743-4: HM; ISO 11158 HV; ASTM D6158; SEB 181222; SIS SS 155434; Denison HF-2; CETOP RP 91H-HV; Sperry Vickers M-2950-S/I-286-S; Bosch Rexroth; AFNOR NFE 48-603 HV; FZG-Test A 8.3/90: Stufe 12

		VPE			VPE
Art.-Nr. 3119030	20 Litre	1	Art.-Nr. 3119010	205 Litre	1
Art.-Nr. 3119020	60 Litre	1			

Emkomas MRX 3268



Viscosity optimised and temperature optimised multi-purpose oil for bearings/spindles/gears/hydraulics

Emkomas MRX 3268 is a high quality, viscosity optimised and operating temperature optimised multi-purpose lubricating oil with anti-corrosive, anti-foaming and oxidation inhibiting additives, which has been specially tailored to modern hydraulic systems, gearboxes, gears and transmission systems. It can be utilised for bearing lubricating and circulation lubrication as well as for all precision hydraulics in commercial vehicles, devices and equipment, machine tools (also spindle lubrication), hydraulic regulators or controllers and torque converters as well as in all hydraulic systems where pressure fluids according to HVLP/HLP classification are required.

Can be used with:

DIN 51524 Teil 3 HVLP 32/46/68 HV; Teil 2 HLP 32/46/68 HM; DIN 13357 Teil2/1; ISO 6743-4: HM; ISO 11158 HV; ASTM D6158; SEB 181222; SIS SS 155434; Denison HF-2; CETOP RP 91H-HV; Sperry Vickers M-2950-S/I-286-S; Bosch Rexroth; AFNOR NFE 48-603 HV; FZG-Test A 8.3/90: Stufe 12

		VPE			VPE
Art.-Nr. 3131030	20 Litre	1	Art.-Nr. 3131010	205 Litre	1
Art.-Nr. 3131020	60 Litre	1			

Indus CLP Range 68, 100, 150, 220, 320, 460, 680



High performance EP industrial gear oil

The oils of the Indus CLP range are high-performance industrial gear oils according to DIN 51517 Part 3 Type CLP with high pressure absorption capacity and very good wear protection in the mixed friction range. Preferred utilisation in mechanically and thermally highly loaded industrial gearboxes or gears with circulation systems. Can also be utilised in highly loaded industrial gear units such as spur gears, bevel gears and worm gears, which are operated at operating temperatures up to 120 °C, or briefly up to 140 °C. ISO VG 32 to VG 680.

Can be used with:

DIN 51517-3: CLP; ISO 6743-6 und ISO 12925-1:CKC/CKD; AGMA/ANSI 9005-E02 / Bumech; FLSmidt MAAG Gear GEARS6075; GLIMAG / Flender BA 7300 / FLSmidt MAAG Gear GEARS6075; Schuller - Müller Weingarten DT 55 055 / US Steel 224

Indus CLP 68		VPE
Art.-Nr. 3141050	5 Litre	1
Art.-Nr. 3141030	20 Litre	1
Art.-Nr. 3141020	60 Litre	1
Art.-Nr. 3141010	205 Litre	1
Art.-Nr. 3141000	Tankware	1

Indus CLP 100		VPE
Art.-Nr. 3142050	5 Litre	1
Art.-Nr. 3142030	20 Litre	1
Art.-Nr. 3142020	60 Litre	1
Art.-Nr. 3142010	205 Litre	1
Art.-Nr. 3142000	Tankware	1

Indus CLP 150		VPE
Art.-Nr. 3143050	5 Litre	1
Art.-Nr. 3143030	20 Litre	1
Art.-Nr. 3143020	60 Litre	1
Art.-Nr. 3143010	205 Litre	1
Art.-Nr. 3143000	Tankware	1

Indus CLP 220		VPE
Art.-Nr. 3144050	5 Litre	1
Art.-Nr. 3144030	20 Litre	1
Art.-Nr. 3144020	60 Litre	1
Art.-Nr. 3144010	205 Litre	1
Art.-Nr. 3144000	Tankware	1

Indus CLP 320		VPE
Art.-Nr. 3145050	5 Litre	1
Art.-Nr. 3145030	20 Litre	1
Art.-Nr. 3145020	60 Litre	1
Art.-Nr. 3145010	205 Litre	1
Art.-Nr. 3145000	Tankware	1

Indus CLP 460		VPE
Art.-Nr. 3146050	5 Litre	1
Art.-Nr. 3146030	20 Litre	1
Art.-Nr. 3146020	60 Litre	1
Art.-Nr. 3146010	205 Litre	1
Art.-Nr. 3146000	Tankware	1

Indus CLP 680		VPE
Art.-Nr. 3147050	5 Litre	1
Art.-Nr. 3147030	20 Litre	1
Art.-Nr. 3147020	60 Litre	1
Art.-Nr. 3147010	205 Litre	1

Indus PG Range 68, 100, 150, 220, 320, 460, 680, 1000



Fully synthetic industrial gear oil based on polyglycol

The oils of the Indus PG range are classified as fully synthetic high-performance industrial gear oils with high pressure absorption capacity and very good wear protection in the mixed friction range. They are preferably utilised in mechanically and thermally highly loaded industrial gearboxes with recirculating systems such as spur gear, bevel gear and worm gear, which are normally expected to be operated at high temperatures (briefly up to 200 °C is possible!).

Can be used with:

DIN 51517-3: CLP-PG; ISO 6743-6; ISO 12925-1: CKC/CKD/CKE/(CKS)/CKT;
AGMA 9005/E02: EP; Alpha Getriebebau; Flender Getriebe; SEW

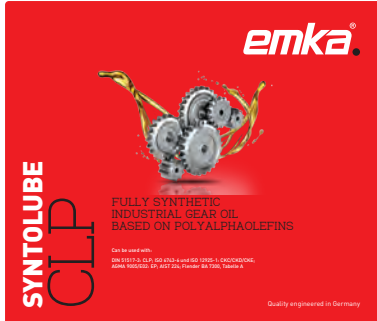
Indus PG 68			Indus PG 100		
Art.-Nr.	Volume	VPE	Art.-Nr.	Volume	VPE
3525150	5 Litre	1	3528150	5 Litre	1
3525230	20 Litre	1	3528130	20 Litre	1
3525210	205 Litre	1	3528110	205 Litre	1

Indus PG 150			Indus PG 220		
Art.-Nr.	Volume	VPE	Art.-Nr.	Volume	VPE
3534050	5 Litre	1	3530050	5 Litre	1
3534030	20 Litre	1	3530030	20 Litre	1
3534010	205 Litre	1	3530010	205 Litre	1

Indus PG 320			Indus PG 460		
Art.-Nr.	Volume	VPE	Art.-Nr.	Volume	VPE
3531150	5 Litre	1	3532050	5 Litre	1
3531130	20 Litre	1	3532030	20 Litre	1
3531010	205 Litre	1	3532010	205 Litre	1

Indus PG 680			Indus PG 1000		
Art.-Nr.	Volume	VPE	Art.-Nr.	Volume	VPE
3533050	5 Litre	1	3535350	5 Litre	1
3533030	20 Litre	1	3535330	20 Litre	1
3533010	205 Litre	1	3535310	205 Litre	1

Syntolube CLP Range 68, 100, 150, 220, 320, 460, 680



Fully synthetic industrial gear oil based on poly alpha olefins

The oils of the Syntolube CLP series are classified as demulsifying, fully synthetic industrial gearbox oils with increased oxidation resistance and ageing resistance, very good load carrying capacity and high wear protection. They are utilised in thermally highly loaded bearings, articulated pressure spindles, spur gear and worm gear as well as planetary gears when increased demands are made on high temperature and low temperature operating limits. Even at short-term peak temperatures of up to 150 °C, the oil still exhibits high lubricant film stability and enables trouble-free operation. It is miscible with mineral gearbox oils and ester-based gearbox oils.

Can be used with:

DIN 51517-3: CLP; ISO 6743-6 und ISO 12925-1: CKC/CKD/CKE; AGMA 9005/E02: EP; AIST 224; Flender BA 7300, Tabelle A

Syntolube CLP 68		VPE
Art.-Nr. 3162050	5 Litre	1
Art.-Nr. 3162030	20 Litre	1
Art.-Nr. 3162010	205 Litre	1

Syntolube CLP 100		VPE
Art.-Nr. 3167050	5 Litre	1
Art.-Nr. 3167030	20 Litre	1
Art.-Nr. 3167010	205 Litre	1

Syntolube CLP 150		VPE
Art.-Nr. 3163150	5 Litre	1
Art.-Nr. 3163130	20 Litre	1
Art.-Nr. 3163110	205 Litre	1

Syntolube CLP 220		VPE
Art.-Nr. 3164050	5 Litre	1
Art.-Nr. 3164030	20 Litre	1
Art.-Nr. 3164010	205 Litre	1

Syntolube CLP 320		VPE
Art.-Nr. 3164550	5 Litre	1
Art.-Nr. 3164530	20 Litre	1
Art.-Nr. 3164510	205 Litre	1

Syntolube CLP 460		VPE
Art.-Nr. 3165050	5 Litre	1
Art.-Nr. 3165030	20 Litre	1
Art.-Nr. 3165010	205 Litre	1

Syntolube CLP 680		VPE
Art.-Nr. 3166050	5 Litre	1
Art.-Nr. 3166030	20 Litre	1
Art.-Nr. 3166010	205 Litre	1

Syntolube SC Range 32, 46, 68, 100



Fully synthetic (PAO) compressor oil for piston-driven compressors, screw compressors and multiple-cell compressors

The oils available in the Syntolube SC range are special compressor oils based on synthetic (PAO) base oils and state-of-the-art additives, which have been developed for use in piston compressors, screw compressors and multiple-cell compressors. They are characterised by their excellent lubrication performance and high thermal stability, which therefore make their utilisation in a very wide temperature range possible, also due to their inherent, very good viscosity-temperature behaviour. The outstanding corrosion protection and the long-lasting protection provided against ageing are additional outstanding characteristics which thereby guarantee a long, malfunction-free operating duration.

Can be used with:

DIN 51506 VDL; ISO 6743-3 DAA/DAB/DAG/DAH/DAJ/DVA/L-HV

Syntolube SC 32			Syntolube SC 46		
Art.-Nr.	Volume	VPE	Art.-Nr.	Volume	VPE
3220130	20 Litre	1	3220230	20 Litre	1
3220120	60 Litre	1	3220220	60 Litre	1
3220110	205 Litre	1	3220210	205 Litre	1
3220100	Tankware	1	3220200	Tankware	1

Syntolube SC 68			Syntolube SC 100		
Art.-Nr.	Volume	VPE	Art.-Nr.	Volume	VPE
3220330	20 Litre	1	3220430	20 Litre	1
3220320	60 Litre	1	3220420	60 Litre	1
3220310	205 Litre	1	3220410	205 Litre	1
3220300	Tankware	1	3220400	Tankware	1

Emkolube SC Range 32, 46, 68



Compressor oil for screw compressors and multiple-cell compressors

The oils available in the Emkolube SC range are special oils which have been produced from paraffin-based base oils and state-of-the-art additives, which were developed for use in screw compressors and multi-cell compressors. They are characterised by their excellent lubrication performance and high thermal stability, which therefore make their utilisation in a very wide temperature range possible, also due to their inherent, very good viscosity-temperature behaviour. The outstanding corrosion protection and the long-lasting protection provided against ageing are additional outstanding characteristics.

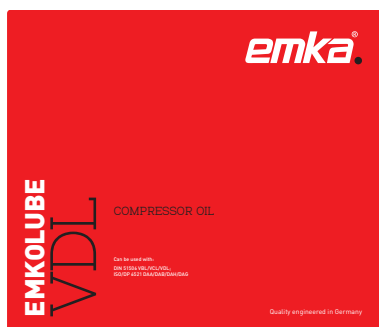
Can be used with:

DIN 51506; ISO 6743-3A DAG

Emkolube SC 32			Emkolube SC 46		
Art.-Nr.	Volume	VPE	Art.-Nr.	Volume	VPE
Art.-Nr. 3231030	20 Litre	1	Art.-Nr. 3230030	20 Litre	1
Art.-Nr. 3231020	60 Litre	1	Art.-Nr. 3230020	60 Litre	1
Art.-Nr. 3231010	205 Litre	1	Art.-Nr. 3230010	205 Litre	1
Art.-Nr. 3231000	Tankware	1	Art.-Nr. 3230000	Tankware	1

Emkolube SC 68		
Art.-Nr.	Volume	VPE
Art.-Nr. 3232030	20 Litre	1
Art.-Nr. 3232020	60 Litre	1
Art.-Nr. 3232010	205 Litre	1
Art.-Nr. 3232000	Tankware	1

Emkolube VDL Range 100, 150



Compressor oils

The oils available in the Emkolube VDL range are special oils which have been produced from paraffin-based base oils and state-of-the-art additives, which were developed for utilisation in stationary and mobile compressors. They are characterised by their very good lubrication performance and thermal stability, which therefore make their utilisation in a very wide temperature range possible, also due to their inherent, very good viscosity behaviour. The reliable corrosion protection and the long-lasting protection provided against ageing are additional outstanding characteristics.

Can be used with:

DIN 51506 VBL/VCL/VDL; ISO/DP 6521 DAA/DAB/DAH/DAG

Emkolube VDL 100			Emkolube VDL 150		
Art.-Nr.	Volume	VPE	Art.-Nr.	Volume	VPE
Art.-Nr. 3244030	20 Litre	1	Art.-Nr. 3245030	20 Litre	1
Art.-Nr. 3244020	60 Litre	1	Art.-Nr. 3245020	60 Litre	1
Art.-Nr. 3244010	205 Litre	1	Art.-Nr. 3245010	205 Litre	1
Art.-Nr. 3244000	Tankware	1	Art.-Nr. 3245000	Tankware	1

Reduct CGLP Range 68, 100, 150, 220



High-performance bed way oil and slide way oil, ISO VG 68 to 220

The oils available in the Reduct CGLP range are recommended for applications in machine tools, especially for the lubrication of horizontal or vertical slide ways and bed ways as well as linear guides. Reduct CGLP 220 is especially utilised for all types of movement under heavy load such as vertical sliding guides of heavy machine tools or vertical column guides located on woodworking machines. The oils available in the Reduct CGLP range can also be utilised according to the machine manufacturer's specifications as a hydraulic oil in the common oil circulation circuit, as a gear oil as well as for circulation lubrication in bearings.

Can be used with:
DIN 51502: CGLP

Reduct CGLP 68			Reduct CGLP 100		
Art.-Nr.	Volume	VPE	Art.-Nr.	Volume	VPE
Art.-Nr. 3332030	20 Litre	1	Art.-Nr. 3333030	20 Litre	1
Art.-Nr. 3332020	60 Litre	1	Art.-Nr. 3333020	60 Litre	1
Art.-Nr. 3332010	205 Litre	1	Art.-Nr. 3333010	205 Litre	1
Art.-Nr. 3332000	Tankware	1	Art.-Nr. 3333000	Tankware	1

Reduct CGLP 150			Reduct CGLP 220		
Art.-Nr.	Volume	VPE	Art.-Nr.	Volume	VPE
Art.-Nr. 3334030	20 Litre	1	Art.-Nr. 3335030	20 Litre	1
Art.-Nr. 3334020	60 Litre	1	Art.-Nr. 3335020	60 Litre	1
Art.-Nr. 3334010	205 Litre	1	Art.-Nr. 3335010	205 Litre	1
Art.-Nr. 3334000	Tankware	1	Art.-Nr. 3335000	Tankware	1

Reduct ENEP Range 68, 220



High performance bed way oil for tooling machinery ISO VG 68/220

The oils of the Reduct ENEP range for utilisation in tool machining are equipped with a modern additive package, which therefore ensures good wetting of the surfaces and thereby prevents run-off. They are especially suitable for the lubrication of horizontal or vertical slide ways and bed ways as well as linear guides, also when they are intended for utilisation with different sliding pair materials such as cast iron/cast steel/steel/plastic/plastic etc. Reduct ENEP 220 is especially utilised for all types of movement under heavy load such as vertical sliding guides of heavy machine tools or vertical column guides located on woodworking machines. The oils can also be utilised according to the machine manufacturer's specifications as a hydraulic oil in the common oil circulation circuit, as a gear oil as well as for circulation lubrication in bearings.

Can be used with:
DIN 51502: CGLP; ISO 6743-13 / GA und GB; CGLP 68/220 / CKC 68/220 / HLP 68/ HM 68; Deckel-Maho; Heller; Hüller Hille; Trumpf

Reduct ENEP 68			Reduct ENEP 220		
Art.-Nr.	Volume	VPE	Art.-Nr.	Volume	VPE
Art.-Nr. 3321030	20 Litre	1	Art.-Nr. 3324030	20 Litre	1
Art.-Nr. 3321020	60 Litre	1	Art.-Nr. 3324020	60 Litre	1
Art.-Nr. 3321010	205 Litre	1	Art.-Nr. 3324010	205 Litre	1
Art.-Nr. 3321000	Tankware	1	Art.-Nr. 3324000	Tankware	1

Lagerstar WTS



White EP long-life grease with solid lubricants

Lagerstar WTS is a white, semi-synthetic EP high-performance long-term grease with solid lubricants for utilisation in heavily loaded roller bearings and plain bearings which are subjected to difficult operating conditions (dust, water, vibrations etc.). It is mainly used in the construction industry on toothed rings and slewing rings, (Cardan) joints, telescopic booms, steel cables/rope pulleys, hydraulic grippers. It is also excellently suited for utilisation in quarries, gravel pits and brickworks in crushers, screening sieves and recycling plants, under-water grabs and grab cables, especially where there is heavy dust, wetness and vibration loads present. In plants involved with extraction, classification and processing, the speed parameter (150,000 mm/minute) must always be observed.

			VPE		
Art.-Nr. 4115883	400 g	24			
Art.-Nr. 4115230	15 kg	1			
Art.-Nr. 4115110	50 kg	1			
Art.-Nr. 4115000	180 kg	1			

Lagerstar SFF



Chuck paste with solid lubricants

Lagerstar SFF is designated as a calcium saponified long-life lubricating paste with white PTFE solid lubricants for the lubrication of friction positions and sliding points under high, even impact-type loads. The product is particularly suitable for lubricating chucks on machine tools.

			VPE		
Art.-Nr. 4115980	400 g	24			

Lagerstar Top 3000



Semi-synthetic EP long-term lubricating grease

Lagerstar TOP 3000 is a semi-synthetic, universal long-term lubricating grease for the lubrication of plain bearings and roller bearings, even when subjected to difficult conditions such as loads caused by pressure, impact, shock and vibration, water, dust in vehicles and working machinery in the construction industry, quarries, gravel pits and cement works, as well as in agriculture and forestry. An extension of the relubrication intervals is possible depending on the degree of load involved, utilisation in automatic lubrication devices is therefore made possible by its good delivery behaviour.

			VPE						VPE		
Art.-Nr. 4120783	400 g	24				Art.-Nr. 4120220	25 kg	1			
Art.-Nr. 4120550	5 kg	4				Art.-Nr. 4120110	50 kg	1			
Art.-Nr. 4120330	15 kg	1				Art.-Nr. 4120000	180 kg	1			

Lagerstar FP

LAGERSTAR
FP WÄLZ- UND
GLEITLAGERFETT

Lagerstar FP ist ein Lithiumseifenfett auf Mineralölbasis und eignet sich für die Schmierung von Wälz- und Gleitlagern bei normaler Beanspruchung und als Abschmierfett in der Industrie, in Kraftfahrzeugen und Arbeitsmaschinen der Bau-, Forst- und Landwirtschaft. Einsetzbar auch bei staubigen und feuchten Betriebsbedingungen und zudem für den Einsatz in Zentralschmieranlagen geeignet. EHS210 Sicherheitsdatenblatt auf Anfrage erhältlich.

Spezifikationen:
 • KPV: 30
 • NLGI-Klasse 2
 • Einsatztemperatur: -30°C/+120°C
 • Tropfpunkt: >180°C
 • Seifenbasis: Lithium
 • Grundviskosität bei 40°C: 110 mm²/s

Roller bearing and plain bearing grease

Lagerstar FP is a lithium soap grease which is based on mineral oil and is therefore suitable for lubricating roller bearings and plain bearings under normal load, and as a grease for industrial applications, in motor vehicles and working machinery in the construction, forestry and agricultural industries. It can be utilised in dusty and damp operating conditions and is also suitable for use in central lubrication systems.

	VPE		VPE	
Art.-Nr. 4230883	400 g	24	Art.-Nr. 4230220	25 kg 1
Art.-Nr. 4230550	5 kg	4	Art.-Nr. 4230110	50 kg 1
Art.-Nr. 4230330	15 kg	1	Art.-Nr. 4230000	180 kg 1

Lagerstar EP-1

LAGERSTAR
EP-1 EP-LANGZEITFETT
FÜR WÄLZ- UND GLEITLAGER

Lagerstar EP-1 ist ein hochwertiges Lithiumseifenfett für die Schmierung von Wälz- und Gleitlagern bei erhöhten Temperaturen, extremen Druckbelastungen und Witterungsbedingungen. Es eignet sich daher besonders für den Einsatz in Industrie, Kraftfahrzeugen, Bau-, Forst- und Landmaschinen. Lagerstar EP-1 ist auch für den Einsatz in Zentralschmieranlagen geeignet.

Spezifikationen:
 • KPV: 30
 • ISO-L-Code: COH1 1
 • NLGI-Klasse 1
 • Einsatztemperatur: -30°C/+120°C
 • Tropfpunkt: >180°C
 • Seifenbasis: Lithium
 • Grundviskosität bei 40°C: 195 mm²/s

EP long life grease for rolling and sliding bearings

Lagerstar EP-1 is a high-quality, lithium soap-type grease for the lubrication of rolling bearings and plain bearings with increased temperatures, extreme pressure loads and weather influences. It is therefore especially suitable for applications in industry, vehicles, machinery for construction, forestry and agriculture.

Lagerstar EP-1 is also suitable for utilisation in central lubrication systems.

	VPE	
Art.-Nr. 4243020	25 kg	1
Art.-Nr. 4231110	50 kg	1

Lagerstar EP-2

LAGERSTAR
EP-2 EP-LANGZEITFETT
FÜR WÄLZ- UND GLEITLAGER

Lagerstar EP-2 ist ein hochwertiges Lithiumseifenfett für die Schmierung von Wälz- und Gleitlagern bei erhöhten Temperaturen und extremen Druckbelastungen. Es eignet sich daher besonders für den Einsatz in Industrie, Kraftfahrzeugen, Bau-, Forst- und Landmaschinen. Lagerstar EP-2 ist für den Einsatz in BEKA-MAX, Lincoln- und Delimon-LKW-Zentralschmieranlagen geeignet. EHS210 Sicherheitsdatenblatt auf Anfrage erhältlich. EHS219 Enthält Naphthalen, Zinkblei, Sphärit. Kann allergische Reaktionen hervorrufen. Can be used with: MAN 283 Li-P2; MB DBL 6804.00 Blatt 267

Spezifikationen:
 • KPV: 2 x 30
 • ISO-L-Code: COH2 2
 • NLGI-Klasse 2
 • RT: 100/+120°C kurzzeitig +130°C
 • Tropfpunkt: >175°C
 • Seifenbasis: Lithium
 • WA-Schweißkraft: 2400 N

EP long life grease for rolling and sliding bearings

Lagerstar EP-2 is a high-quality, ageing-resistant and resilient EP lithium soap-type grease for the lubrication of rolling bearings and plain bearings in industry, motor vehicles and in working machinery in construction, forestry and agriculture. It is also suitable for use in BEKA-MAX, Lincoln and Delimon HGV central lubrication systems.

Can be used with:

MAN 283 Li-P2; MB DBL 6804.00 Blatt 267.0; Volvo Std 1277.18

	VPE		VPE	
Art.-Nr. 4240683	400 g	24	Art.-Nr. 4240220	25 kg 1
Art.-Nr. 4241484	500 g	30	Art.-Nr. 4240110	50 kg 1
Art.-Nr. 4241145	4,5 kg	1	Art.-Nr. 4240000	180 kg 1
Art.-Nr. 4240330	15 kg	1		

Lagerstar HPWR

LAGERSTAR HPWR (SALZ-)WASSERBESTÄNDIGES POLYMER-SPEZIALFETT

Lagerstar HPWR ist ein Polymer Spezial-Langzeit-Schmierfett für Gleit-/Wälzlager und sonstige Schmierstellen, das insbesondere unter kritischen Bedingungen wie (Salt-) Wasser, hohe Feuchtigkeit, Vibrationen, Stoß- und Rüttelbelastung in Fahrzeugen, Arbeitsmaschinen und Wasserpumpen eingesetzt wird. Aufgrund der hohen Grundviskosität besitzt es ein ausgeprägtes Haltungsvermögen, welches verlängerte Schmierfristen ermöglicht und eine hohe Laufzeit der Maschinen sicherstellt.

- Spezifikationen:
- DIN 51502: KPPE-30
 - ISO 1224: L-XCFB/B2
 - NLGI-Klasse 2
 - Farbe: gelb/rot/schwarz
 - Einsatztemperatur: -30°C/+110°C
 - Trenneigenschaften
 - Grundöl: Mineralöl/Polymer
 - Walspenetration: 265 - 295
 - VKA-Schweißkraft: 3000 N
 - Grundviskosität bei 60°C: 920 mm²/s
 - Tropfpunkt: >140°C
 - Greiftemperatur

(Salt-)water resistant polymer, special grease

Lagerstar HPWR is a polymer, special long-term grease designed for plain bearings/roller bearings and other lubrication points, which is utilised especially under critical conditions such as (salt) water, high humidity, vibrations, shock loads and vibration loads in vehicles, working machinery and water pumps. Its high base oil viscosity means that it provides a pronounced adhesive power, which enables extended lubrication intervals and ensures a long running time for the machinery concerned.

	VPE		
Art.-Nr. 4250084	500 g	30	
Art.-Nr. 4250035	18 kg	1	

Lagerstar LIC

LAGERSTAR LIC EP-LANGZEITFETT MIT HOCHTEMPERATUREIGENSCHAFTEN

Allroundschmierfett für sehr hohe mechanische und thermische Belastungen auf Lithium-Komplex-Basis. Hervorragende Waskstabilität und Wasserbeständigkeit, ausgeprägte EP-Eigenschaften, guter Korrosionsschutz.

- Spezifikationen:
- DIN 51825: KPZN-30
 - ISO/DIS 6742-9: ISO-L-XCDBB 2
 - NLGI-Klasse 2
 - Greiftemperatur: >180 °C
 - VKA-Schweißkraft: 3000 N
 - VKA-Schweißkraft: 3000 N
 - VKA-Schweißkraft: 3000 N

High temperature EP long life grease

Lagerstar LIC is a lithium complex-saponified high-temperature grease for very high mechanical and thermal loads.

Ideally suited for the lubrication of rolling bearings and plain bearings on generators, electric motors, fans and ventilators. Lagerstar LIC is also used in wheel hubs and clutch release bearings.

	VPE			VPE		
Art.-Nr. 4263880	400 g	24		Art.-Nr. 4260130	15 kg	1
Art.-Nr. 4263884	500 g	30		Art.-Nr. 4260220	25 kg	1
Art.-Nr. 4260150	5 kg	4		Art.-Nr. 4260210	50 kg	1

Lagerstar ZEN-VOG

LAGERSTAR ZEN-VOG HOCHLEISTUNGS-FLISSFETT FÜR ZENTRALSCHMIERANLAGEN

Lagerstar ZEN-VOG ist Hochleistungs-Fließfett, das speziell für Zentralschmieranlagen in Nutzfahrzeugen entwickelt wurde. Darüber hinaus kann es auch in niedrig bis mittel belasteten Getrieben eingesetzt werden.

Es ist freigegeben von Daimler-Benz (Betriebsstoffvorschrift 264), Willy Vogel und MAN (nach Werknorm 283-Li-P00) für den Einsatz in LKW-Zentralschmieranlagen.

- Spezifikationen:
- EP 00/000 K-50
 - ISO-K-CEB-00/000
 - NLGI-Klasse 00/000
 - EP-Schmelztemp.: >180 °C
 - Schmelztemp.: >180 °C
 - Schmelztemp.: >180 °C

High performance fluid grease for central lubrication systems

Specially developed for central lubrication systems in commercial vehicles. Furthermore, can also be utilised in gearboxes which are subjected to low to medium loads.

It has been approved by Daimler-Benz (operating substances regulation 264), Willy Vogel and MAN (according to works standard 283-Li - P00) for use in HGV central lubrication systems.

	VPE		
Art.-Nr. 4320570	Tube	900 g	20
Art.-Nr. 4320450		5 kg	4
Art.-Nr. 4320330		15 kg	1
Art.-Nr. 4320220		25 kg	1
Art.-Nr. 4320110		50 kg	1
Art.-Nr. 4320000		180 kg	1

Lagerstar ZEN-YUB

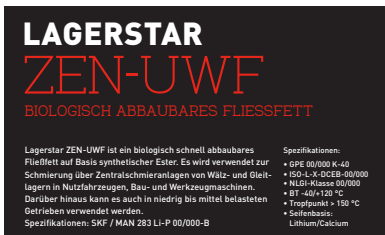


High performance fluid grease for central lubrication systems

Lagerstar ZEN-YUB is a high-performance lithium complex soap-based fluid grease which has been specially developed for central lubrication systems in commercial vehicles and industry. It is very pressure resistant and possesses a very good temperature resistance and indicates a very high drip point.

VPE		
Art.-Nr. 4321050	5 kg	4
Art.-Nr. 4321020	18 kg	1
Art.-Nr. 4321010	50 kg	1

Lagerstar ZEN-UWF



Biodegradable fluid-type grease

Lagerstar ZEN-UWF is a rapidly biodegradable fluid-type grease which is based on synthetic esters. It is utilised for lubrication via central lubrication systems for roller bearings and plain bearings in commercial vehicles, construction machinery and machine tools.

Furthermore, it can also be utilised in gearboxes which are subjected to low to medium loads.

Specifications: SKF / MAN 283 Li-P 00/000-B

VPE		
Art.-Nr. 4325130	18 kg	1

Lagerstar TO



Fluid-type grease for gears

Lagerstar TO is a long-fibre, soft sodium soap grease with excellent adhesive properties, which is utilised for lubricating mechanical gears. Due to its inherent structure, it is repeatedly drawn into the tooth mesh and thereby continuously forms a load-bearing lubricating film and protective layer on the tooth flanks. It will not be ejected off the gears even by centrifugal forces. It can be utilised in applications for industry and in forestry and agriculture (e.g. in roundabout harrows and hay rakes) where non-oil-tight, slow-running mechanical gears are in use.

VPE			VPE		
Art.-Nr. 4330655	700 g	20	Art.-Nr. 4330220	25 kg	1
Art.-Nr. 4330550	5 kg	4	Art.-Nr. 4330110	50 kg	1

Lagerstar WZM 000

LAGERSTAR WZM FLIESSFETT FÜR WERKZEUGMASCHINEN

Lagerstar WZM 000 ist ein hochwertiges Lithiumkomplexseifenfett für die Rollenschmierung von Linearführungen an Werkzeugmaschinen. Es ist auch bestens zur Schmierung von mechanisch hochbelasteten Getrieben geeignet und durch sein hervorragendes Nachfließverhalten sehr gut förderbar in Zentralschmieranlagen.

Spezifikationen:

- DIN 51830-30
- ISO 6743-9:
- ISO-L-VCDBB 000
- NLGI-Klasse 000
- Einsatztemperatur: 20°C / 140°C
- Tropfpunkt: + 160°C
- Seifenbasis: Lithiumkomplex
- VKA-Scheitkraft: 2800 N

Fluid-type grease for tooling machinery

Lagerstar WZM 000 is a high quality lithium complex soap grease for roller lubrication of linear guides on tooling machinery or machine tools. It is also ideally suited for lubricating mechanically highly loaded gears and, due to its excellent after-flow behaviour, is very easy to convey in central lubrication systems.

VPE

Art.-Nr. 4360070	1 Litre	11
Art.-Nr. 4360055	5 kg	4

Lagerstar H.O.T.

LAGERSTAR H.O.T. HOCHTEMPERATURFETT FÜR WALZ- UND GleitLAGER

Lagerstar H.O.T. ist ein Hochtemperatur-Schmierfett auf Mineralölbasis mit einem Calciumsulfatkomplex Verdicker der neuesten Generation mit bereits integrierten EP- und AW-Additiven. Es kommt zum Einsatz in Walz- und Gleitlagern, wo hohe Temperaturen und extreme Druck- und Stoßbelastungen anliegen wie in der Bauindustrie, z.B. in Straßenfertigung, Bitumen-/Asphaltmischwerken, Arbeitsmaschinen, Brecheranlagen und anderen Fahrzeugen/Lagern, wo sich hohe Temperaturen entwickeln können und die auch unter widrigen Bedingungen und Umwelteinflüssen betrieben werden können (offroad und/oder offshores). Ebenso ist der Einsatz in der Stahlindustrie an Chargekränen, Drehöfen oder Elektrorollen in Warmwalzwerken möglich. | EDR210 - Sicherheitsdatenblatt auf Anfrage erhältlich

Spezifikationen:

- DIN 51830-30/24-30
- ISO 12926: L-VCFDIB2
- NLGI-Klasse 2
- Basistemperatur:
- 200°C / 100°C, max. +180°C
- Tropfpunkt: +280°C
- Seifenbasis: Calciumsulfatkomplex
- VKA-Scheitkraft: 7000
- Grundviskosität bei 60°: 210 mPa/s

High-temperature grease for roller bearings and plain bearings

Lagerstar H.O.T. is a high-temperature grease which is based on mineral oil with a calcium sulphate complex thickener of the latest generation with EP and AW additives already integrated. It is utilised in roller bearings and plain bearings where high temperatures and extreme pressure and shock or impact loads are present, such as in the construction industry, e.g. in road pavers, bitumen mixing plants/asphalt mixing plants, work machinery, crushing plants and other vehicles/plants where high temperatures can develop and which are also operated under adverse conditions and environmental influences (offroad and/or offshore).

It can also be utilised in the steel industry on batching cranes, rotary furnaces or electric rollers in hot rolling mills.

VPE

Art.-Nr. 4370683	400 g	24
Art.-Nr. 4370220	25 kg	1

Emkosyn E 6250-1



Water-miscible cooling lubricant containing mineral oil

Emkosyn 6250-1 is a boric acid-free and amine-free, water-miscible high-performance cooling lubricant for universal utilisation in medium to heavy machining of aluminium alloys and non-ferrous metals.

Application concentration: General machining = from 5%, heavy machining = from 10%. Minimum shelf life 12 months when stored at a temperature of 5 °C to 40 °C in closed containers.

		VPE
Art.-Nr. 5184113	180 kg	1
Art.-Nr. 5184114	950 kg IBC	1

Emkosyn XTR 8000 BM



Water-miscible cooling lubricant with mineral oil content, no identification labelling required.

Emkosyn XTR 8000 BM is an identification labelling-free, non-ferrous metal inhibited, water-miscible high-performance cooling lubricant of the latest generation with a mineral oil content. The product has been developed for universal applications in machining operations and grinding operations of non-ferrous metal alloys (it is particularly suitable for this due to the high degree of inhibition), steel alloys, steel, cast materials and aluminium.

Application concentration: Grinding and universal machining 6-10%.

		VPE
Art.-Nr. 5194030	20 Litre	1
Art.-Nr. 5194010	208 Litre	1

Emkosyn MS 9140



Water-miscible cooling lubricant

Emkosyn MS 9140 is a water-miscible cooling lubricant concentrate which contains mineral oil. It can be utilised for grinding as well as for light to medium machining operations on cast iron and (non)alloyed steels. Emkosyn MS 9140 does not contain formaldehyde releasers and contains boric acid and amine.

Application concentration: Grinding and light to medium machining: from 5%.

		VPE			VPE
Art.-Nr. 5252035	5 Litre	4	Art.-Nr. 5252010	200 Litre	1
Art.-Nr. 5252032	20 Litre	1	Art.-Nr. 5252000	1.000 L IBC	1
Art.-Nr. 5252022	60 Litre	1			

Emkosyn MSA 3785



Water-miscible cooling lubricant

Emkosyn MSA 3785 is a water-miscible high-performance cooling lubricant which contains mineral oil but is free of boric acid and formaldehyde. It can be utilised for grinding cast iron and for light machining of alloyed as well as unalloyed steels and aluminium alloys.

Application concentration: Grinding: from 5%, light machining: from 8%

			VPE		VPE	
Art.-Nr. 5484630	20 kg	1	Art.-Nr. 5484612	200 kg	1	
Art.-Nr. 5484620	60 kg	1	Art.-Nr. 5484610	999 kg IBC	1	

Emkosyn MSQ 9720



Water-miscible cooling lubricant

Emkosyn MSQ 9720 is a boric acid-free, water-miscible high-performance cooling lubricant for utilisation in general machining and for grinding alloyed/unalloyed steels and aluminium alloys.

Application concentration: Grinding: from 5%, General machining: from 6%, Medium to heavy machining: from 8%.

			VPE		VPE	
Art.-Nr. 5250532	20 kg	1	Art.-Nr. 5250514	200 kg	1	
Art.-Nr. 5250522	60 kg	1	Art.-Nr. 5250504	950 kg IBC	1	

Emkosyn MBF 9530



Water-miscible cooling lubricant containing mineral oil

Emkosyn MBF 9530 is a mineral oil containing, boric acid, formaldehyde releasing, water miscible high performance cooling lubricant developed from the latest generation. It has been specially developed for grinding and machining aluminium alloys (e.g. 2024/6061/6082/7075), although it can also be utilised for (non)alloyed steels and cast iron.

Preparation water: from 5°dH to 30°dH, in use with hard water, stable up to approx. 150°dH.

Application concentration: Grinding from 5%, general machining from 7%. Minimum shelf life 12 months when stored at a +5 to +40 °C

			VPE		VPE	
Art.-Nr. 5253530	20 kg	1	Art.-Nr. 5253510	200 kg	1	
Art.-Nr. 5253520	60 kg	1	Art.-Nr. 5253501	988 kg IBC	1	

Emkosyn PKF 9380



Water-miscible cooling lubricant

Emkosyn PKF 9380 is a water-miscible high-performance cooling lubricant with EP/AW active ingredients, although it does not contain boric acid and formaldehyde deposits. It has been developed for universal applications in machining work and grinding operations from cast iron, steel to highest-quality alloy steels and aluminium alloys. Application concentration: Grinding: 5-6%, machining (depending on the type and material): 6-15%. Utilising Emkosyn PKF 9380 will reduce the risk of downtime as well as minimising the costs. You will always be on the safe side with this product in terms of high performance, process reliability as well as health and environmental protection. The classification in Water Hazard Class 1 also minimises the requirements and costs as far as storage provisions are concerned. The costs for staff training and occupational health and safety measures are therefore eliminated with this product.

		VPE				VPE	
Art.-Nr. 5285030	20 kg	1		Art.-Nr. 5285010	200 kg	1	
Art.-Nr. 5285020	60 kg	1		Art.-Nr. 5285000	977 kg IBC	1	

Emkosyn PKF 8490



„Labelling-free“ water-miscible cooling lubricant

Emkosyn PKF 8490 is a labelling-free water-miscible high-performance cooling lubricant with EP/AW active ingredients, also one which does not contain any boric acid and formaldehyde deposits. It has been developed for universal applications in machining work and grinding operations from cast iron, steel and aluminium alloys. Application concentration: Grinding: 5-6%, medium machining: 6-8%, heavy machining: 8-10%, very heavy machining: 10-15%

Utilising Emkosyn PKF 8490 will reduce the risk of downtime as well as minimising the costs. You will always be on the safe side with this product in terms of high performance, process reliability as well as health and environmental protection. The costs for staff training and occupational health and safety measures are therefore eliminated with this labelling-free product.

Health protection/environmental protection: BG (Employer´s Insurance Association) statistics indicate that in the metal processing sector, lubricants are the trigger for every third skin disease with confirmed suspicion of an occupational disease. The result is therefore lost working hours for staff.

		VPE				VPE	
Art.-Nr. 5287030	20 kg	1		Art.-Nr. 5287010	200 kg	1	
Art.-Nr. 5287020	60 kg	1		Art.-Nr. 5287000	985 kg IBC	1	

Emkosyn ESA 200



Synthetic, water-miscible cooling lubricant

Emkosyn ESA 200 is a water-miscible high-performance cooling lubricant of the latest generation based on synthetic ester oils and is therefore free of mineral oil, boron, formaldehyde, fungicides and active sulphur. It is particularly suitable for applications with materials which are difficult to machine, such as high-alloy steels, titanium and nickel alloys during turning, milling, grinding, reaming and (deep-hole) drilling. Emkosyn ESA 200 is therefore a very good alternative to other available polymer-based, mineral oil-free cooling lubricants. Application concentration: 3.5 - 8%, minimum shelf life 12 months at +10 to +30 °C.

		VPE				VPE	
Art.-Nr. 5185032	20 kg	1		Art.-Nr. 5185012	200 kg	1	
Art.-Nr. 5185022	55 kg	1		Art.-Nr. 5185006	900 kg IBC	1	

Emkosyn KLA 867



Synthetic grinding concentrate

Emkosyn KLA 867 is a mineral oil-free, water-miscible high-performance cooling lubricant for utilisation in grinding steel and cast iron. Utilising special ingredients therefore ensures a high resistance to bacteria and fungi, so that the solution can be considered as biostable. It contains good corrosion protection, is extremely low-foaming, leaves no sticky residues and has a good wetting effect and rinsing effect. Storage conditions: 12 months when stored at a +5 °C to + 30 °C

Recommended application concentration: 3-5%

Determination of concentration by titration: 100 ml sample, 1 M hydrochloric acid as measuring solution.

Indicator: Bromophenol blue or pH-meter up to pH 4.0.

Calculation:

Consumption in ml x factor (0.515) = concentration in % of Emkosyn KLA 867.

Art.-Nr.	Weight	VPE	Art.-Nr.	Weight	VPE
Art.-Nr. 5430036	23 kg	1	Art.-Nr. 5430016	233 kg	1
Art.-Nr. 5430026	63 kg	1	Art.-Nr. 5430000	1.165 kg IBC	1

Emkosyn MSH 460 BFF



Mineral oil-free grinding concentrate

Emkosyn MSH 460 BFF is a mineral oil-free, water-soluble high-performance grinding concentrate for grinding hard metal and hard metal tools, alloyed and unalloyed steel as well as most other common aluminium alloys.

Contains amines, but is free of boric acid and formaldehyde releasers.

Application concentration: Grinding = from 3%

Art.-Nr.	Weight	VPE	Art.-Nr.	Weight	VPE
Art.-Nr. 5414030	23 kg	1	Art.-Nr. 5414010	230 kg	1
Art.-Nr. 5414020	63 kg	1			

System Cleaner 052



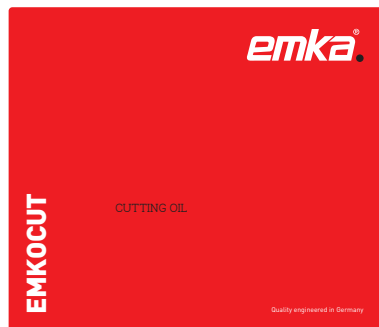
Cleaning material and disinfecting agent for cooling lubricant circulation systems

System Cleaner 052 is a highly effective, formaldehyde-free and boron-free cleaning agent and bactericide, which has an excellent effect against mould and bacteria. The product can be added into the emulsion in the circulation system before each cooling lubricant exchange process in a low concentration of 1 - 3% (depending on the degree of contamination) and allowed to react for at least 6 - 8 hours (a longer reaction time will increase the disinfection influence and cleaning effect). This process can be executed while the machine is running, the cutting and machining performance is not impaired by this. Deposits and fungi which are present in the system will be dissolved, kept in suspension and removed when the emulsion is drained off.

After draining off the treated emulsion, always flush the circulation system through with clean water.

Art.-Nr.	Volume	VPE
Art.-Nr. 5515030	20 Litre	1
Art.-Nr. 5515020	60 Litre	1
Art.-Nr. 5515010	200 Litre	1

Emkocut Range 115, 122, 132



Cutting oil

Emkocut type 132 is a universal cutting oil for machining components which are made of medium to difficult to machine materials of alloyed and unalloyed steel. The product is also very suitable for machining non-ferrous metals and aluminium due to the additives which it already contains.

Emkocut 115			Emkocut 122		
		VPE			VPE
Art.-Nr. 5714020	20 Litre	1	Art.-Nr. 5715030	20 Litre	1
Art.-Nr. 5714010	205 Litre	1	Art.-Nr. 5715020	60 Litre	1
Art.-Nr. 5714000	Tankware	1	Art.-Nr. 5715010	205 Litre	1
			Art.-Nr. 5715000	Tankware	1

Emkocut 132		VPE
Art.-Nr. 5716030	20 Litre	1
Art.-Nr. 5716020	60 Litre	1
Art.-Nr. 5716010	205 Litre	1
Art.-Nr. 5716000	Tankware	1

Emkocut SR Range 115, 122, 132



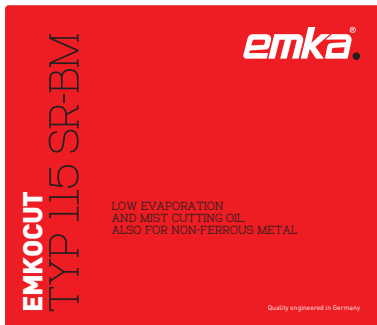
Minimum evaporation and low mist cutting oil

Emkocut SR is designated as a minimum evaporation and low mist cutting oil which is produced from high quality mineral oil refined sources. This non-water-miscible high-performance cooling lubricant is suitable for the machining of components which are made of medium to difficult to machine materials. It contains very effective chlorine-free cutting additives with S-additives. It can be utilised as a hydraulic oil according to HLP DIN 51524 Part 2 and as gear oil CLP in spur gears, bevel gears and worm gears. Emkocut 122 SR creates an excellent rationalisation alternative in case of leakage (= penetration of lubricating oil into the lubricating oil circuit). Emkocut 122 SR can be utilised wherever one will possibly require a universal oil for applications for interlinked processes.

Emkocut SR-115			Emkocut SR-122		
		VPE			VPE
Art.-Nr. 5922630	20 Litre	1	Art.-Nr. 5922730	20 Litre	1
Art.-Nr. 5922620	60 Litre	1	Art.-Nr. 5922710	205 Litre	1
Art.-Nr. 5922610	205 Litre	1	Art.-Nr. 5922700	1000 L IBC	1
Art.-Nr. 5922601	1000 L IBC	1			

Emkocut SR-132		VPE
Art.-Nr. 5922830	20 Litre	1
Art.-Nr. 5922820	60 Litre	1
Art.-Nr. 5922810	205 Litre	1
Art.-Nr. 5922801	Tankware	1

Emkocut Typ 115 SR-BM



Minimum evaporation and low mist cutting oil, also for non-ferrous metal

Emkocut 115 SR-BM is designated as a chlorine-free and zinc-free, minimum evaporation and low mist cutting oil which is produced from high quality mineral oil refined sources. This non-water-miscible high-performance cooling lubricant is suitable for the machining production process and grinding components which are made of materials that are medium to difficult to machine. It contains very effective chlorine-free cutting additives.

Ideally suited for machining alloyed and unalloyed steel, cast iron, aluminium and non-ferrous metal.

		VPE
Art.-Nr. 5941010	205 Litre	1
Art.-Nr. 5941000	Tankware	1

Emkocut K 50-11

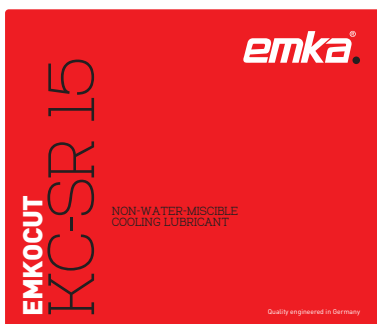


Non-water-miscible cutting oil

Emkocut K 50-11 is a universally applicable cutting oil for machining unalloyed and alloyed steels, for light to medium-heavy duty operations. It can also be utilised for machining non-ferrous metals. Furthermore, utilisation in central lubrication systems as a HLP / CLP lubricating oil is also possible.

		VPE
Art.-Nr. 5930020	60 Litre	1
Art.-Nr. 5930010	205 Litre	1

Emkocut KC-SR 15



Non-water-miscible cooling lubricant

Emkocut KC-SR 15 is a high-performance cutting oil for machining at high cutting speeds and with increased demands on cooling characteristics and flushing properties (broaching, deep hole drilling, high-speed turning etc.). It is suitable for machining non-ferrous metals as well as soft to tough-hard steels.

		VPE
Art.-Nr. 5950010	208 Litre	1

Emkocut MKS K 2029



Minimum quantity cooling lubricant

Emkocut MKS K 2029 can be utilised as a cold extrusion oil and forming oil for difficult machining operations on steel and stainless steel. It is not suitable for non-ferrous metals. It is to be sprayed directly onto the workpiece intervention point / tool cutting edge with the usual MMKS spraying devices.

VPE			VPE		
Art.-Nr. 5912830	20 Litre	1	Art.-Nr. 5912810	200 Litre	1
Art.-Nr. 5912820	60 Litre	1			

Emkocut MKS E 4792



Synthetic minimum quantity cooling lubricant

Emkocut MKS E 4792 is a mineral oil-free, synthetic minimum quantity cooling lubricant which can be universally utilised in applications for all tensioning and tension-free machining processes. It is to be utilised as undiluted. Due to its special inherent structure, it effectively prevents the formation of built-up edges on the tools and is therefore particularly suitable for machining aluminium alloys.

VPE			VPE		
Art.-Nr. 5912050	5 Litre	4	Art.-Nr. 5912030	20 Litre	1
Art.-Nr. 5912040	10 Litre	1	Art.-Nr. 5912010	200 Litre	1

Emkocut WIS AK-FIL



High-performance thread-cutting oil

Emkocut WIS AK-FIL is a chlorine-free thread-cutting oil with powerful active ingredients in a high concentration. It will be preferably utilised for threading operations, although it can also be used for difficult operations on steel and stainless steel as a forming oil (pipe bending etc.). The product adheres very well to the workpieces which are to be machined.

It is not suitable for machining non-ferrous metal.

VPE			VPE		
Art.-Nr. 5910070	1 Litre	12	Art.-Nr. 5910030	25 Litre	1
Art.-Nr. 5910050	5 Litre	4	Art.-Nr. 5910020	60 Litre	1

Emkoterterm M 350



Heat transfer fluid

Emkoterterm M 350 is a mineral oil-based, high-performance heat transfer fluid which is suitable for closed circulation systems. It can be utilised in applications for indirect heating of plants, systems or equipment in the industries for foodstuff, construction, plastics, wood and metal as well as in laundries and on ships. The system can operate without an inert gas up to 300 °C. A low degree of overpressure must be maintained by an inert gas at temperatures above 300 °C up to 320 °C.

		VPE				VPE	
Art.-Nr. 6215030	20 Litre	1		Art.-Nr. 6215010	205 Litre	1	
Art.-Nr. 6215020	60 Litre	1		Art.-Nr. 6215000	Tankware	1	

Emkoterterm Sint 350



Synthetic heat transfer fluid

Emkoterterm Sint 350 is a synthetic heat transfer fluid which is suitable for closed circulation systems based on temperature-stable alkyl benzene according to DIN 51522. The modern additive package thereby ensures temperature stability and oxidation stability and provides effective protection against corrosion. The product will be utilised for indirect heating for plants, systems or equipment in the industries for foodstuff, construction, plastics, wood and metal as well as in laundries and on ships.

If there are operating temperatures present above 300 °C, then the product must be utilised in closed systems with nitrogen overlays (N₂).

		VPE	
Art.-Nr. 6220010	205 Litre	1	

Emkorol DFW 4480



Dewatering fluid / water-displacing corrosion inhibitor

Utilised for drying water-wet parts, with simultaneous formation of a corrosion protection film (thin film former). A neutral water rinsing zone is always recommended before treatment with Emkorol DFW 4480. Application in the as supplied condition at room temperature, mainly in immersion methods and spraying processes, application with a brush is also possible. The protection layer can be removed with organic solvents or alkaline industrial cleaners.

The product can be stored for 6 months when stored at +5 to +30 °C

VPE			VPE		
Art.-Nr. 6421030	20 Litre	1	Art.-Nr. 6421010	200 Litre	1
Art.-Nr. 6421020	60 Litre	1	Art.-Nr. 6421000	Tankware	1

Emkorol DFW 4482



Dewatering fluid / water-displacing corrosion protection agent

Utilised for drying water-wet parts with the simultaneous formation of a corrosion protection film (thin film former,). A neutral water rinsing zone is always recommended before treatment with EMKOROL DFW 4482. Application in the as supplied condition at room temperature, mainly in immersion methods and spraying processes and/or with a brush is also possible.

Can be removed with organic solvents or alkaline industrial cleaners. Storage for 6 months when stored at a +5 to +30 °C

VPE			VPE		
Art.-Nr. 6422030	20 Litre	1	Art.-Nr. 6422010	200 Litre	1
Art.-Nr. 6422020	60 Litre	1	Art.-Nr. 6422000	Tankware	1

Emkorol DFW 4485



Dewatering fluid / water-displacing corrosion protection agent

Utilised for drying water-wet parts with simultaneous formation of a corrosion protection film (thin film former). A neutral water rinsing zone is always recommended before treatment with Emkorol DFW 4485. Application in the as supplied condition at room temperature, mainly in immersion methods and spraying processes and/or with a brush is also possible.

Can be removed with organic solvents or alkaline industrial cleaners.

The product is suitable for intermediate conservation/final conservation and transport conservation.

Storage: 6 months when stored at a +5 °C to +30 °C

VPE			VPE		
Art.-Nr. 6423030	20 Litre	1	Art.-Nr. 6423010	200 Litre	1
Art.-Nr. 6423020	60 Litre	1			

Emkorol DFW 4518



Dewatering fluid / non-water-miscible corrosion protection agent

Emkorol DFW 4518 is a barium-free, non-water-miscible corrosion protection agent with excellent dewatering characteristics/drying properties. It is mainly utilised in an immersion process, although it can also be applied by spraying or brushing, leaving a slightly greasy, non-resinous corrosion protection film. It provides suitable protection on unalloyed steel, cast iron, aluminium and non-ferrous metal.

The corrosion protection film can be removed with cold cleaners which contain mineral oil or with aqueous-alkaline cleaners.

Storage: 24 months at +5 °C to +40 °C in closed containers.

		VPE
Art.-Nr. 6424130	20 Litre	1
Art.-Nr. 6424110	200 Litre	1

Emkovolt TRA



Transformer oil/insulation oil

Emkovolt TRA is a special, fully inhibited transformer oil and insulating oil which is based on naphthene-base oils. It is suitable for utilisation in transformers of all power levels, switches and rectifiers. It can be additionally utilised to insulate energised parts, prevent glow discharges, dissipate heat, extinguish arcs in switches and impregnate insulating materials. Emkovolt TRA fulfils all the current requirements for mineral oil based insulating oils in electrical resources and equipment of IEC 60296: 2020, Type A (Table 3) inhibited oils with higher oxidation stability and low sulphur content. It is non-corrosive, contains no DBDS, passivators or pour point improvers.

		VPE			VPE
Art.-Nr. 6515030	20 Litre	1	Art.-Nr. 6515010	205 Litre	1
Art.-Nr. 6515020	60 Litre	1	Art.-Nr. 6515000	1.000 L EW-IBC	1

Emkolin FEM



Spark erosion oil / dielectric

Emkolin FEM is a dielectric which has been specially developed for die-sinking EDM. It is utilised for fine grinding and super finishing of alloyed and unalloyed steels, aluminium and non-ferrous metals, therefore achieving excellent surface finishes with increased tool service life.

			VPE		
Art.-Nr. 6520030	20 Litre	1	Art.-Nr. 6520010	200 Litre	1
Art.-Nr. 6520020	60 Litre	1	Art.-Nr. 6520000	Tankware	1

Emkolin 2054-1



Dielectric

Emkolin 2054-1 is a dielectric which has been specially developed for die-sinking EDM. It is utilised for fine grinding and super finishing of alloyed and unalloyed steels, aluminium and non-ferrous metals, whereby it can achieve excellent surface finish quality grades with increased service life.

			VPE		
Art.-Nr. 6524030	20 Litre	1	Art.-Nr. 6524010	200 Litre	1
Art.-Nr. 6524020	60 Litre	1	Art.-Nr. 6524000	Tankware	1

Emkoclean S 186



HKW and aromatics-free cold degreaser/cold cleaner

Emkoclean S 186 is a solvent-based cold cleaner and degreaser which possesses excellent dissolving power against natural and synthetic oils and greases. It can be utilised for all degreasing work and cleaning operations by processes involving wash-down, immersion, spraying and flooding and is therefore very suitable for use in parts washing devices. Its application is particularly recommended where, for safety reasons, physiologically harmful solvents or those with a low flash point should not be considered for utilisation. Emkoclean S 186 can dissolve tar, waxes, natural resins and synthetic resins and is particularly recommended for cleaning painted or primed parts.

ATTENTION: Cold cleaners may only be utilised in conjunction with installed light liquid separators (oil separators)!

			VPE		VPE	
Art.-Nr. 8304032	20 Litre	1	Art.-Nr. 8304012	200 Litre	1	
Art.-Nr. 8304022	60 Litre	1				

Garantol U 80



Cold cleaner

Garantol U 80 fulfils the high cleaning requirements of industry and trade for good, fast and clean cleaning action on oily, greasy and dirty surfaces. The material which is to be cleaned will not be attacked by the cold cleaner. This product does not contain any corrosive, acidic and alkaline components. Electrical functions will not be affected when it is handled properly. The cold cleaner is based on very well refined petroleum fractions and cleaning-active substances. The cold cleaner always reacts neutrally and contains physiologically safe emulsifiers which will not irritate the human skin.

It should always be utilised in concentrated form and then washed off with water or a high-pressure cleaner for any cleaning work. If utilised correctly, then no vapours are produced in concentrations which could be hazardous to health. The product is considered to be emulsifying with subsequent sufficient oil phase separation and water phase separation.

			VPE		VPE	
Art.-Nr. 8305030	20 Litre	1	Art.-Nr. 8305010	200 Litre	1	
Art.-Nr. 8305022	60 Litre	1	Art.-Nr. 8305000	1000 Litre	1	

Emkoclean S 94



Cold cleaner

Emkoclean S 94 is designated as a degreasing solvent-based cold cleaner and dissolves e.g. oils, greases, tar, waxes, natural resins and synthetic resins. It can be utilised to clean primed or painted parts, but cannot dissolve hardened paints, most rubber and plastics (test first). The cleaner will be applied by procedures involving washing, immersion, dipping, spraying, brushing and flooding. Emkoclean S 94 is recommended where solvents with a low flash point should not be utilised/must not be utilised.

ATTENTION: Cold cleaners may only be utilised in conjunction with installed light liquid separators (oil separators)!

			VPE		VPE	
Art.-Nr. 8306032	20 Litre	1	Art.-Nr. 8306012	205 Litre	1	
Art.-Nr. 8306022	60 Litre	1				

Emkoclean HP 2000



Biodegradable cleaning concentrate

Emkoclean HP 2000 is a versatile, biodegradable cleaning concentrate. The product is excellently suited for cleaning machinery, vehicles, floors, motors and engines in industry, households, agriculture and repair workshops. Applicable in processes with dipping, wiping and washing off with a preparation concentration of 5-50% (depending on the type and degree of soiling). Also ideal in high-pressure and steam-blasting devices or equipment, as heating up to 80 °C increases the cleaning effect (approx. 0.5 - 3% to be metered onto the lance).

		VPE			VPE
Art.-Nr. 8307060	5 Litre	1	Art.-Nr. 8307022	60 Litre	1
Art.-Nr. 8307032	20 Litre	1	Art.-Nr. 8307010	205 Litre	1

Emkoclean E 5090



All-purpose cleaner for daily use in the company

Emkoclean E 5090 is a universal cleaner and is suitable for cleaning almost all waterproof, non-absorbent surfaces such as metal, glass, plastic, stone, ceramics and painted surfaces (e.g. tools, workpieces, vehicles, engines, carburetors, nozzles, filters, machines, tanks, pipes, hall floors >always implement a preliminary test beforehand!).

It can also gently dissolve even the strongest soiling such as dust, road dirt, oil and grease. Emkoclean E 5090 can be utilised as cold or warm in procedures involving wash-down, dipping or spraying processes and in cold or hot water high-pressure devices as well as ultrasonic cleaning devices.

Depending on the degree of soiling involved, use as undiluted as 1:1 or dilute it in a ratio of 1:50.

		VPE			VPE
Art.-Nr. 8308030	20 Litre	1	Art.-Nr. 8308010	205 Litre	1
Art.-Nr. 8308022	60 Litre	1			

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