

PRODUCT CATALOGUE FOR INDUSTRY





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LEADER

After the merger with LOTOS Oil in 2023, ORLEN OIL became the leader, satisfying 125% of the Polish market demand for lubricants. The quality of the company's products and development is overseen by around 700 qualified employees. Together we aim for success!

BRAND

ORLEN OIL is part of the ORLEN Capital Group. ORLEN S.A. is a multi-utility conglomerate, managing the petrochemical and upstream segments. It has refineries in Poland, the Czech Republic and Lithuania, as well as service station networks in Poland, Germany, the Czech Republic, as well as Slovakia, Lithuania, Hungary and Austria.



Refinery

7 refineries in Poland, the Czech Republic and Lithuania >30 million tonnes of annual crude oil processing 0.3 million tonnes of biofuel products



Detail

3500 stations

Over 15 million

electricity consumers

customers of petrol stations in the

on 7 markets

2600 food

outlets

region 3 million



Extraction of

in the portfolio

Petrochemicals

petrochemical products

sold to more than 60 countries

share of speciality products

40

16%

1278 million boe of 2P resources in Canada, Poland, Norway and Lithuania >154,000 boe/d average hydrocarbon production



Energetics

5.1 GW

installed capacity, including: 0.8 GW in RES and 1.7 GW in gas-fired sources **200,000 km** power lines

ORLEN OIL

Who are we?



EFFECTIVENESS

We have 4 production sites, including a state-of-the-art logistics centre in Trzebinia and advanced sea logistics in Gdańsk, ecological production from used oils in Jedlicze and a lubricant production line in Czechowice-Dziedzice. Logistical and production efficiency for our domestic and international customers is our priority.

PRODUCTION

We have an annual production capacity of 420,000 tonnes of finished products from the oil bases of some of the most modern refineries in Central and Eastern Europe: Gdańsk Refinery and Płock Refinery ORLEN S.A. ORLEN OIL stands for stability of supply, repeatability of production batches and technologically advanced additives. The quality and compliance of ORLEN OIL products with label declarations is confirmed by the Company's membership in the ATIEL organisation. We are transparent because our brand obliges.

CONTINENTS



Who are we?

DISTRIBUTION

4 continents, 76 countries, 202 distributors - these are the numbers showing the reach of ORLEN OIL's lubricant products on the global market. Our products are appreciated in hot Africa as well as in the cold countries of the Arctic Circle. Each of the countries we serve finds in our offer the fulfilment of the individual needs of their respective automotive markets.

INVESTMENTS

We are building a state-of-the-art HBO oil block to further meet the demand for lubricants in the global market. From 2025 onwards, we will produce our own superior Group II bases with Chevron Lummus Global- IDW's proven technology, expanding our range of finished products.



Product name		Density at 15°C [^{kg/m3}]	Kinematic viscosity at 40°C [mm²/s]	Viscosity index	Pour point [°C]	Flash point [°C]	Corrosion effect on Cu plate, 100°C/3h	Quality class
HYDROL BIO HEES EL 46		919.8	47.0	191	-48	300	1	PN-ISO 15380 Tab. 4
HYDROL BIO HETG EL 46*		917.7	47.7	207	-23	306	1	PN-ISO 15380 Tab. 2
HYDROL HEAVY L-HV/HVLP 15	*	857.0	15.0	155	-42	189	1a	
HYDROL HEAVY L-HV/HVLP 32	*	863.0	32.0	150	-51	214	1a	
HYDROL HEAVY L-HV/HVLP 46	*	871.0	46.0	150	-48	226	1a	DIN 51524-3 HVLP ISO 6743-4 HV ISO 11158 HV
HYDROL HEAVY L-HV/HVLP 68	*	878.0	66.0	152	-45	248	1a	- 130 11136 HV
HYDROL HEAVY L-HV/HVLP 100	*	880.0	100.0	150	-45	246	1a	_
HYDROL POWER L-HV 32		855.9	32.2	186	-39	-	1a	
HYDROL POWER L-HV 46		866.8	48.6	180	-39	-	1a	DIN 51524-3 HVLP iSO 6743-4 HV ISO 11158 HV
HYDROL POWER L-HV 68		871.5	68.4	180	-36	-	1a	
HYDROL L-HV PLUS 32	*	862.2	31.2	180	-45	199	1a	
HYDROL L-HV PLUS 46	*	872.5	46.9	180	-45	205	1a	DIN 51524-3 HVLP iSO 6743-4 HV ISO 11158 HV
HYDROL L-HV PLUS 68	\star	877.2	66.2	178	-45	217	1a	130 11136 HV
HYDROL SYNT PE 46*		839.0	43.7	140	-54	258	1a	DIN 51524-3 HVLP iSO 6743-4 HV ISO 11158 HV
HYDROL EXTRA L-HV 32		853.9	32.0	158	-42	-	1a	
HYDROL EXTRA L-HV 46		878.4	47.0	157	-39	-	1a	DIN 51524-3 HVLP ISO 6743-4 HV ISO 11158 HV
HYDROL EXTRA L-HV 68		884.4	68.6	155	-36	-	1a	130 11138 HV
HYDROL ARCTIC L-HV 15		874.4	15.9	330	-63	136	1a	DIN 51524-3 HVLP iSO 6743-4 HV
HYDROL ARCTIC L-HV 32		866.0	32.2	263	-56	164	1a	ISO 11158 HV
HYDROL PREMIUM L-HV 15		845.6	16.3	153	-39	191	1a	_
HYDROL PREMIUM L-HV 22		861.7	21.7	152	-37	195	1a	
HYDROL PREMIUM L-HV 32		867.3	31.6	165	-39	203	1a	DIN 51524-3 HVLP iSO 6743-4 HV ISO 11158 HV
HYDROL PREMIUM L-HV 46		875.6	45.9	148	-34	210	1a	100 11100 11
HYDROL PREMIUM L-HV 68		880.5	65.9	146	-30	221	1a	
HYDROL L-HV 15		856.6	16.0	198	-40	178	1a	
HYDROL L-HV 22		862.6	22.2	169	-39	192	1a	
HYDROL L-HV 32		868.2	30.8	155	-35	205	1a	DIN 51524-3 HVLP
HYDROL L-HV 46		875.9	44.8	154	-42	209	1a	iSO 6743-4 HV ISO 11158 HV
HYDROL L-HV 68		880.3	65.0	148	-30	223	1a	
HYDROL L-HV 100		884.3	91.6	148	-30	232	1a	

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If you have any application concerns, please contact the Oil Service Team. Contact details on page 25 of the catalogue, e-mail: servis@orlenoil.pl * Product available from time to time by special order

PREMIUM - Zinc-free oils PAO - poly-alpha-olefins

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Approvals	Product description
-	Easily biodegradable hydraulic oil produced on the basis of specially selected synthetic esters. Recommended for indu and mobile hydrostatic hydraulic systems where there is a potential risk of oil leaking into the environment.
-	Easily biodegradable hydraulic oil produced on the basis of specially selected vegetable oil. Recommended for industria mobile hydrostatic hydraulic systems where there is a potential risk of oil leaking into the environment.
Meets: • Bosch-Rexroth RDE 90235 • Parker Denison HF0, HF1, HF2 • Eaton Brochure 03-401-2010 • Eaton Specification EFDGN-TB002-E • Fives Cincinnati P-68, 69, 70	Modern hydraulic oils, recommended for heavily loaded power transmission systems and hydraulic drive and control. are used in mobile hydraulic systems (operating under varying temperature conditions) for excavators, bulldozers, eleva mining machinery and industrial systems and equipment (e.g. in the maritime industry).
It has: • Parker Denison HF0, HF1, HF2 • ElG certificate B mark Meets: • Eaton Brochure 03-401-2010 • Eaton Specification EFDGN-TB002-E • Fives Cincinnati P-68, 69, 70	Hydraulic oils with a higher viscosity index for the lubrication of the hydraulic systems of mobile construction, mining and tionary industrial machinery. The DYNAVIS® technology from EVONIK, which is used, reduces fuel consumption and en consumption.
Meets: • Parker Denison HF0, HF1, HF2 • Eaton Brochure 03-401-2010 • Eaton Specification EFDGN-TB002-E • Fives Cincinnati P-68, 69, 70	Mineral zinc oils with a higher viscosity index. They contain carefully selected additives with lubricating, anticorrosive, and dant, deemulsifying and anti-foaming effects. Oils designed for heavily loaded power transmission and hydraulic drive control systems, in hydraulic systems of construction and mining machinery.
-	Synthetic, zinc-free and ashless hydraulic oil produced on the basis of polyalphaolefins (PAO). Recommended for use in h stressed power transmission and hydraulic drive and control systems with very harsh working conditions and high aml temperatures and humidity.
It has: • Parker Denison HF0, HF1, HF2 • Eaton Brochure 03-401-2010 • Eaton Specification EFDGN-TB002-E • EIG certificate B mark	Hydraulic oils with a high viscosity index and excellent shear resistance. They are mainly intended to lubricate the hydraulic tems of mobile construction and mining machinery operating in very difficult conditions (working pressure in hydraulic pu up to 50MPa), variable temperature and humidity.
-	Hydraulic oils with excellent low-temperature properties and a very high viscosity index. Designed for use in hydraulic syst operating at extremely low ambient temperatures.
Meets: • Parker Denison HF0, HF1, HF2 • Eaton Brochure 03-401-2010 • Eaton Specification EFDGN-TB002-E	Zinc-free hydraulic oils designed for highly loaded power transmission systems and hydraulic drive and control systems or ting under extreme conditions of high pressure and over a wide temperature range.
It has: • EIG certificate B mark Meets: • Parker Denison HF0, HF1, HF2 • Eaton Brochure 03-401-2010 • Eaton Specification EFDGN-TB002-E • Fives Cincinnati P-68, 69, 70	Hydraulic oils for use in heavy-duty drive systems, high-pressure fixed and variable displacement piston pumps and prec hydraulic controls and systems. These oils are characterised by a high level of antiwear properties and additionally impr viscosity-temperature properties compared to L-HM hydraulic oils.

Product name	Density at 15°C [^{kg/m3}]	Kinematic viscosity at 40°C [mm²/s]	Viscosity index	Pour point [°C]	Flash point [°C]	Corrosion effect on Cu plate, 100°C/3h	Quality class
HYDROL EXTRA HLP-D 32	869.0	31.9	99	-35	216	1a	DIN 51524-2 HLPD ISO 6743-4 HM ISO 11158 HM
HYDROL PREMIUM HLP-D 15	857.7	14.4	109	-30	170	1	
HYDROL PREMIUM HLP-D 32	874.1	31.1	98	-34	215	1	DIN 51524-2 HLPD ISO 6743-4 HM
HYDROL PREMIUM HLP-D 46	879.5	45.9	98	-27	225	1	ISO 11158 HM
HYDROL PREMIUM HLP-D 68	883.5	68.3	96	-25	230	1	
HYDROL HLP-D 22 HYDROL HLP-D 32	867.1 873.8	22.1 30.9	106	-33 -33	217 210	1	DIN 51524-2 HLPD
HYDROL HLP-D 32	880.7	45.7	104	-30	210	1	ISO 6743-4 HM
HYDROL HLP-D 68	886.2	67.6	99	-30	232	1	ISO 11158 HM
HYDROL HEAVY L-HM/HLP 15	852.3	14.6	111	-30	170	1a	
HYDROL HEAVY L-HM/HLP 22	867.1	22.4	101	-33	210	1a	
HYDROL HEAVY L-HM/HLP 32	875.4	32.8	105	-33	228	1a	
HYDROL HEAVY L-HM/HLP 46 🔶	880.3	46.3	105	-30	230	1a	DIN 51524-2 HLP ISO 6743-4 HM ISO 11158 HM
HYDROL HEAVY L-HM/HLP 68 🔶	886.0	68.1	100	-30	248	1a	
HYDROL HEAVY L-HM/HLP 100	891.5	101.1	99	-30	250	1a	
HYDROL HEAVY L-HM/HLP 150 📌	894.3	154.6	100	-30	268	1a	
HYDROL PREMIUM L-HM 22	864.3	22.5	102	-34	194	1a	
HYDROL PREMIUM L-HM 32	874.4	31.8	102	-28	210	1a	DIN 51524-2 HLP
HYDROL PREMIUM L-HM 46	879.0	45.6	102	-27	212	1a	ISO 6743-4 HM ISO 11158 HM
HYDROL PREMIUM L-HM 68	884.2	65.0	102	-26	224	1a	
HYDROL L-HM/HLP 10	853.9	10.1	102	-36	162		
HYDROL L-HM/HLP 15	860.8	15.1	101	-35	180	1a 1a	
HYDROL L-HM/HLP 22	865.3	21.9	102	-35	195	1a	
HYDROL L-HM/HLP 32	873.5	30.4	103	-30	211	1a	DIN 51524-2 HLP ISO 6743-4 HM ISO 11158 HM
HYDROL L-HM/HLP 46	879.5	45.3	104	-30	227	1a	
HYDROL L-HM/HLP 68	885.6	66.8	100	-27	237	1a	
HYDROL L-HM/HLP 100	878.7	98.3	99	-23	273	1a	
HYDROL L-HM/HLP 150	883.2	143.2	96	-18	282	1a	

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PREMIUM - Zinc-free oils **MEETS** - complies with the approval requirements The ORLEN OIL portfolio has been expanded to include selected products from the LOTOS OIL range. These products are marked in the catalogue with the mark

IT HAS - is approved or certified

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Approvals	Product description			
-	High-quality, zinc-free hydraulic oil with cleaning properties. The product is designed for use in stationary and mobile hydra systems operating in variable operating conditions under high pressure and high thermal load. The oil is dedicated especial continuous operation and where there is a danger of contamination of the system with water or condensed steam.			
-	Zinc-free hydraulic oil with cleaning properties. The product is designed for use in stationary and mobile hydraulic syste operating in variable operating conditions under high pressure and high thermal load. The oil is dedicated especially to consult nuous operation and where there is a danger of contamination of the system with water or condensed steam.			
- It has: · Schuler - Müller Weingarten DT55005	Hydraulic oils with washing properties for use in various types of stationary and mobile hydraulic systems of machines equipment operating under normal and difficult operating conditions, especially in a continuous system and where there danger of the system becoming contaminated with water or condensed water vapour.			
Meets: • Bosch-Rexroth RDE 90235 • Parker Denison HF0, HF1, HF2 • Eaton Brochure 03-401-2010 • Fives Cincinnati P-68, 69, 70				
It has: Bosch-Rexroth RDE 90235 Parker Denison HF0, HF1, HF2 Eaton Brochure 03-401-2010 Eaton Specification EFDGN-TB002-E Meets: Fives Cincinnati P-68, 69, 70 GM LS-2 Antiwear Hydraulic Oil Chinese Standard GB 11118.1 L-HM JCMAS HK U.S. Steel 126	Modern hydraulic oils, developed in cooperation with leading manufacturers of hydraulic systems and their equipment, BOSCH-REXROTH, PARKER DENISON, EATON. Oils recommended for heavily loaded power transmission systems as as hydraulic drive and control systems. They are used in mobile hydraulic systems (operating under varying temperature of ditions) for excavators, bulldozers, elevators, mining machinery and industrial systems and equipment (e.g. in the marit industry).			
Meets: · Bosch-Rexroth RDE 90235 · Parker Denison HF0, HF1, HF2 · Eaton Brochure 03-401-2010 · Fives Cincinnati P-68, 69, 70				
- It has: • Eaton Brochure 03-401-2010 Meets: • Parker Denison HF0, HF1, HF2 • Eaton Specification EFDGN-TB002-E	Zinc-free hydraulic oils intended for use in highly loaded power transmission systems as well as hydraulic drive and cor systems operating in extremely difficult conditions of high pressures and high temperatures.			
- Meets: Parker Denison HF0, HF1, HF2				
 Eaton Brochure 03-401-2010 Eaton Specification EFDGN-TB002-E Fives Cincinnati P-68, 69, 70 				
It has: • ElG certificate B mark Meets: • Parker Denison HF0, HF1, HF2 • Eaton Brochure 03-401-2010 • Eaton Specification EFDGN-TB002-E • Fives Cincinnati P-68, 69, 70	- Hydraulic oils for highly stressed power transmission and hydraulic drive and control systems, i.e. hydraulic gears, regula			
It has: • Parker Denison HF0, HF1, HF2 • ElG certificate B mark Meets: • Eaton Brochure 03-401-2010 • Eaton Specification EFDGN-TB002-E • Fives Cincinnati P-68, 69, 70	and controlling mechanisms and other similar equipment, where difficult operating conditions and increased ambient terr ratures and humidity prevail.			
It has: • ElG certificate B mark Meets: • Denison HF0, HF1, HF2 • Eaton Brochure 03-401-2010 • Eaton Specification EFDGN-TB002-E • Fives Cincinnati P-68, 69, 70 • ElG certificate B mark				

Product name	Density at 15°C [^{kg/m3}]	Kinematic viscosity at 40°C [mm²/s]	Viscosity index	Pour point [°C]	Flash point [°C]	Corrosion effect on Cu plate, 100°C/3h	Quality class
HYDROL L-HL 15	858.4	14.4	100	-35	180	1a	
HYDROL L-HL 22	866.6	21.9	103	-33	197	1a	
HYDROL L-HL 32	874.1	31.0	103	-30	218	1a	
HYDROL L-HL 46	880.1	45.5	101	-28	224	1a	DIN 51524-1 HL ISO 6743-4 HL ISO 11158 HL
HYDROL L-HL 68	884.8	66.4	98	-27	230	1a	130 TT 30 UL
HYDROL L-HL 100	879.7	101.3	95	-19	264	1a	
HYDROL L-HL 150	885.2	149.1	96	-16	277	1a	
ORLEN OIL H-515	869.9	13.1	390	-63	93	1 (135°C/72h)	NO-91-A202:2019 STANAG 3748:2015 MIL-PRF-5606J
HYDROL PREMIUM HVLP-D 46	877.5	47.4	177	-42	230	1	DIN 51524-3 HVLPD iSO 6743-4 HV ISO 11158 HV
HYDROL HVLP-D 46	874.5	46.3	157	-39	230	1	DIN 51524-3 HVLPD iSO 6743-4 HV ISO 11158 HV
HYDROL HLPT 46	877.5	42.7	123	-39	220	1	DIN 51524-2 HLP ISO 6743-4 HM ISO 11158 HM
HYDROL SPECIAL 46	875.6	48.8	123	-39	220	1	DIN 51524-2 HLP
HYDROL SPECIAL 68	883.8	69.3	115	-42	225	1	ISO 6743-4 HM ISO 11158 HM
O.OIL OTHP3 ISO VG 32	872.0	30.9	122	-42	202	1	DIN 51524-2 HLP ISO 6743-4 HM ISO 11158 HM

If you have any application concerns, please contact the Oil Service Team. Contact details on page 25 of the catalogue, e-mail: servis@orlenoil.pl

PREMIUM - Zinc-free oils **MEETS** - complies with the approval requirements IT HAS - is approved or certified

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Approvals	Product description				
- It has: • EIG certificate B mark Meets: • Parker Denison HF0, HF1, HF2 • Eaton Brochure 03-401-2010 • Eaton Specification EFDGN-TB002-E • Fives Cincinnati P-68, 69, 70	Hydraulic oils are intended for use in low- and medium-duty power transmission systems and hydraulic drive and control systems of hydrostatic drive equipment operating under moderate temperature conditions.				
-	Hydraulic oil for aviation and ground technology. The product is designed for use in hydraulic systems, shock absorber assemblies and hydraulic dampers of aircraft and in hydraulic systems of ground technology.				
-	Zinc-free hydraulic oil with cleaning properties and a high viscosity index. Designed for stationary and mobile hydraulic sys- tems of machines and devices operating in normal and difficult conditions when there is a risk of contamination of the system with water or condensed water vapour. It can be used in construction machinery operating in high air pollution.				
-	Hydraulic oil with cleaning properties and a high viscosity index. Designed for stationary and mobile hydraulic systems of ma- chines and devices operating in normal and difficult conditions when there is a risk of contamination of the system with water or condensed water vapour. It can be used in construction machinery operating in high air pollution.				
-	Hydraulic oil for use in highly stressed power transmission and hydraulic drive and control systems, i.e. hydraulic gears, re- gulating and control mechanisms and other similar equipment, where difficult operating conditions and increased ambient temperature and humidity prevail. A product with enhanced physical and chemical parameters.				
-	Hydraulic oils with improved oxidation resistance. Intended for the lubrication of power transmission systems, drive and hy- draulic control and regulation mechanisms, hydraulic gears. The products have been developed for use in stationary and mo- bile industrial machinery, vehicles, construction and mining machinery.				
Meets: • Parker Denison HF0, HF1, HF2	Mineral hydraulic oil for stationary and mobile machines, buses, forklifts, trucks and construction machinery with automatic transmission. Can also be used as HM hydraulic fluid.				



Tab. Viscosity classification of industrial oils according to ISO 3448					
Viscosity class in accordance with ISO 3448	Permissible kinema- tic viscosity range at 40°C for a given oil class [mm²/s]				
2	1.98 - 2.42				
3	2.88 - 3.52				
5	4.14 - 5.06				
7	6.12 - 7.48				
10	9.00 - 11.0				
15	13.5 - 16.5				
22	19.8 - 24.2				
32	28.8 - 35.2				
46	41.4 - 50.6				
68	61.2 - 74.8				
100	90 - 110				
150	135 - 165				
220	198 - 242				
320	288 - 352				
460	414 - 506				
680	612 - 748				
1000	900 - 1100				
1500	1350 - 1650				

Tab. Classification of industrial oils according to ISO and DIN							
ISO 6743/4	DIN 51 524	Composition	Application				
HL	HL	Mineral oils with improved an- ti-corrosion and antioxidant properties.	Hydraulic oils are intended for use in low- and medium-duty power transmission systems and hy- draulic drive and control systems of hydrostatic drive equipment operating under moderate tem- perature conditions.				
НМ	HLP	HL oils with improved anti-wear properties.	Hydraulic oils for highly stressed power transmission and hydrau- lic drive and control systems, i.e. hydraulic gears, regulating and controlling mechanisms and other similar equipment, where difficult operating conditions and increased ambient temperatures and humidity prevail.				
-	HLPD	Mineral oils with anti-wear, an- tioxidant and anti-corrosion ad- ditives. They contain cleaning and dispersing additives.	For use in various types of sta- tionary and mobile hydraulic sys- tems of machines and devices operating in normal and difficult operating conditions, when there is a risk of contamination of the system with water or condensed water vapour.				
HV	HVLP	HM oils with improved viscosi- ty-temperature properties.	Hydraulic oils for use in heavy-du- ty drive systems, high-pressure fixed and variable displacement piston pumps and precision hy- draulic controls and systems.				
HEES	-	Synthetic esters	Biodegradable hydraulic oils re- commended for industrial and mobile hydrostatic hydraulic sys-				
HETG	-	Triglycerides	tems where there is a potential risk of oil entering the environ- ment.				



Hydraulic fluids for mining

Product name	Kinematic viscosity at 40°C [mm²/s]	Water content by distillation	pH of emul- sion	Certificate	Product description		
HYDROCOP SYNTHETIC	80.0	52	from 7 to 10	It has:	Emulsifying concentrate for the production of micro-emul- sions with a concentration of 0.5 - 2 % (m/m) to be used in the mining industry as flame-retardant HFAE hydraulic fluid using waters with a total hardness of up to 750 mg CaCO3/I (42 °n).		
HYDROKOP SEMISYNTETIC	52.0	60.0	from 8 to 10	 EIG certificate B mark 	Micro-emulsion emulsifying concentrate for the production of micro-emulsions with a concentration of 0.5 - 2 $\%$ (m/m) to be used in the mining industry as flame-retardant HFAE hydraulic fluid using waters with a total hardness of up to 750 mg CaCO3/I (42 °n).		
НҮДКОКОР ЕКО 🖈	57.0	57.0 - fr		-	Emulsifying concentrate for hydraulic fluids HFAE is used f the preparation of flame-retardant oil and water emulsions f power hydraulics. The optimum concentration is 0.5 per cent concentration of 1 per cent is acceptable), using waters with hardness of up to 40 °n.		
Product name	Density at 20°C [g/ml]	Crystalliza- tion tempe- rature, max. [°C]	Boiling point [°C]	Certificate	Product description		
KONHYDR T	1.076	-35	107	It has: • EIG certificate B mark	The product is intended for the transport and temporary corrosion protection of hydraulic power equipment whose components are made of steel, copper, zinc, brass and alu- minium. The liquid can be used as a working medium in refri- geration systems and as a liquid for sprinkling the floors and sides of coal trucks in winter to prevent coal from freezing		

If you have any application concerns, please contact the Oil Service Team. Contact details on page 25 of the catalogue, e-mail: serwis@orlenoil.pl

 $\ensuremath{\text{IT\,HAS}}$ - is approved or certified

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Hydraulic and gear oils

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Product name	Density at 15°C [kg/ m³]	Kinematic viscosity at 40°C [mm²/s]	Viscosity index	Pour point [°C]	Flash point [°C]	Resistance to foaming, I sequence [ml/ml]	Quality class	Approval / certificate	Product description
GALKOP 46	882.3	46.8	100	-26	221				Hydraulic-transmis- sion oils recommen-
GALKOP 68	887.6	70.6	100	-25	241	0.40	DIN 51517-3 CLP DIN 51524-3 HLP	ElG certificate	ded for the lubrication of hydraulic systems and mechanical trans- missions in the mining
GALKOP 100	889.2	98.6	97	-24	257	0/0			
GALKOP 150	892.9	151.7	95	-18	260				industry and industrial machines
TRANSOL V 32	869.5	32.3	107	-36	218	20/0	DIN 51517-3 CLP DIN 51524-2 HLP	It has: • Voith Turbo 3625-006058 • Voith Turbo 3625-006072 • Voith Turbo 3625-006073 • Voith Turbo 3625-008426	Hydraulic-gearbox oil for industrial sta- tionary clutches and hydrodynamic gears of machines operating under severe con- ditions.

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Product name	Density at 15°C [kg/ m³]	Kinematic viscosity at 40°C [mm²/s]	Viscosity index	Pour point [°C]	Flash point [°C]	Corrosion effect on Cu plate, 100°C/3h	FZG	Quality class	
TRANSGEAR PAG 150	998.7	152.8	201	-30					
TRANSGEAR PAG 220	100.9	217.7	174	-30					
TRANSGEAR PAG 320	100.8	329.2	198	-30	>260	1	>13	DIN 51517-3 CLP	
TRANSGEAR PAG 460	100.6	480.7	225	-28					
TRANSGEAR EXTRA PAG 220 🔺	1059.0	226.0	233	-39	290	-	-	DIN 51517-3 CLP ISO 12925-1 CSPG, CTPG	
TRANSGEAR EXTRA PAO 150 🔶	852.0	150.0	177	-48	245				
TRANSGEAR EXTRA PAO 220 🖌	858.0	220.0	182	-42	245		>12	DIN 51517-3 CLP ISO 12925-1 CKD/CKSMP	
TRANSGEAR EXTRA PAO 320 🖌	860.0	320.0	186	-33	251	1	>12	GB 5903-211 CKD AGMA 9005 F16 AS	
TRANSGEAR EXTRA PAO 460 🖌	858.0	460.0	166	-30	245				
TRANSGEAR PAO 150	852.9	140.4	168	-51	258				
TRANSGEAR PAO 220	881.3	206.5	163	-39	236	1	>12	DIN 51517-3 CLP ISO 6743-6 CKD/CKS/CKT ISO 12925-1 CKD/CKS/CKT AGMA 9005-EO2 U.S. Steel 224	
TRANSGEAR PAO 320	858.0	326.0	176	-45	274		>12		
TRANSGEAR PAO 460	863.3	439.0	162	-39	260				
AEROMIL SYNTHETIC CLP 320 🌟	893.0	320.0	165	-36	225	1	14	DIN 51517-3 CLP AGMA 9005 E06	
TRANSGEAR PE-150	876.1	147.8	160	-39	240				
TRANSGEAR PE-220	883.9	216.3	163	-39	232		. 10	DIN 51517-3 CLP ISO 12925-1 CKD	
TRANSGEAR PE-320	891.7	318.2	169	-39	238	1	>12	ANSI/AGMA 9005-F16 U.S. Steel 224	
TRANSGEAR PE-460	898.1	449.2	166	-36	238				
TRANSOL EXTRA XSP 150	888.0	150.0	95	-18	260				
TRANSOL EXTRA XSP 220	890.0	224.0	96	-18	260		. 40	DIN 51517-3 CLP ISO 6743-6 CKD	
TRANSOL EXTRA XSP 320	898.0	317.0	95	-15	260	1	>12	U.S. Steel 224 AGMA 9005 D 97	
TRANSOL EXTRA XSP 460	901.0	460.0	96	-12	266				

If you have any application concerns, please contact the Oil Service Team. Contact details on page 25 of the catalogue, e-mail: serwis@orlenoil.pl

PAG - polyalkylene glycols mPAO - metallocene poly-alpha-olefins EP - Extreme Pressure IT HAS - is approved or certified THAS - is approved or certified to the LOTOS OIL range. These products are marked in the catalogue with the mark



Approval / certificate	Product description
Meets: ∙ David Brown Type G	Synthetic industrial gear oils are produced on the basis of polyalkylene glycols. Oils designed for highly loaded mecha- nical gears of industrial equipment operating at temperatures in excess of 200°C.
Meets: • David Brown Type G • Flender gear units	Synthetic oil for industrial gears based on polyalkylene glycols. Oil intended for highly loaded mechanical gears of industrial equipment operating at temperatures exceeding 200°C.
It has: ∙ Flender gear units	The oils are produced on the basis of modern, synthetic metallocene polyalphaolefins (mPAO) and ash-free additives. They can be used in the lubrication of calendars, various types of gearboxes, bearings operating under extreme ther- mal and mechanical loads. In closed industrial gearboxes, the oil's properties ensure that very long operating times are achieved, even for the entire "Fill for Life" service life.
Meets: • David Brown Type E	Synthetic oils for industrial gears based on polyalphaolefins (PAO) and esters. Products designed for various types of highly stressed gears in industrial machinery and equipment exposed to micropitting, operating at temperatures up to 180°C.
It has: · Flender gear units Meets: · Hansen · Winenergy · Moventas · FAG Schaffler · SKF PA Cage Compatibility Test · SKF Yellow Metal Compatibility · Timken OK Load	Top quality, dedicated oil for wind turbine gearboxes. The unique formulation provides exceptional protection against sludge and deposit formation, keeping the system cleaner for longer and increasing the life of the filters used. A high degree of micropitting resistance, a high viscosity index, improved deemulsifying properties, effective air release as well as compatibility with sealing materials are additional advantages of this oil.
It has: • Flender gear units • EIG certificate B mark	Synthetic oils for industrial gearboxes. Products intended for various types of highly loaded gears of industrial machi- nes and devices exposed to micro pitting and operating at temperatures up to 180°C.
It has: · Flender gear units Meets: · David Brown	Top-quality, mineral gear oils for use in industrial gears: bevel, bevel, spur, planetary, worm, geared motors, where an oil with increased load film strength is required while providing protection against micro pitting. Due to their good thermo-oxidative stability, the products provide long operating intervals at higher temperatures (up to 120°C) in mo- dern industrial gearboxes.



Product name	Density at 15°C [kg/ m³]	Kinematic viscosity at 40°C [mm²/s]	Viscosity index	Pour point [°C]	Flash point [°C]	Corrosion effect on Cu plate, 100°C/3h	FZG	Quality class	
TRANSOL SP-68	877.0	70.0	101	-30	250				
TRANSOL SP-100	878.0	100.0	101	-30	262				
TRANSOL SP-150	883.0	150.0	99	-21	271				
TRANSOL SP-220	891.0	219.0	97	-18	272	1	12	DIN 51517-3 CLP ISO 6743-6 CKD ISO 12925-1 CKD	
TRANSOL SP-320	896.0	319.0	96	-12	273			AGMA 9005-F 16 AS U.S. Steel 224	
TRANSOL SP-460	898.0	455.0	97	-9	274				
TRANSOL SP-680	901.0	678.0	98	-12	290				
TRANSOL SP-1000	902.0	1002.0	104	-6	298				
TRANSOL CLP 68	878.0	69.0	97	-27	254				
TRANSOL CLP 100	878.0	100.0	102	-30	260	_		DIN 51517-3 CLP	
TRANSOL CLP 150	885.0	147.0	99	-24	273	_			
TRANSOL CLP 220	888.0	215.0	98	-21	274	1	-	ISO 6743-6 CKC ISO 12925-1 CKC AGMA 9005-F 16 AS U.S. Steel 224	
TRANSOL CLP 320	894.0	316.0	97	-12	275				
TRANSOL CLP 460	899.0	450.0	97	-9	274				
TRANSOL CLP 680	902.0	670.0	101	-12	270				
TRANSOL 68	885.0	68.0	99	-27	229				
TRANSOL 100	890.1	97.9	96	-25	230				
TRANSOL 150	894.0	158.8	96	-24	235				
TRANSOL 220	897.8	224.6	95	-24	260	1	12	DIN 51517-3 CLP ISO 6743-6 CKC ISO 12925-1 CKC	
TRANSOL 320	901.3	317.2	95	-15	261				
TRANSOL 460	904.6	471.5	94	-15	261				
TRANSOL 680	904.6	676.5	95	-15	260				
TRANSOL GL-1 🔶	890.0	18.0*	96	-14	290	1	-	GL-1	

If you have any application concerns, please contact the Oil Service Team. Contact details on page 25 of the catalogue, e-mail: serwis@orlenoil.pl *Kinematic viscosity at100°C

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Approval / certificate	Product description
	Synthetic oil for industrial gears based on polyalkylene glycols. Oil intended for highly loaded mechanical gears industrial equipment operating at temperatures exceeding 200°C.
Meets: • David Brown Type M, A & E	Industrial gear oils, manufactured from selectively refined mineral oils and an EP - Extreme Pressure - type addi package. Products intended for highly loaded mechanical transmissions of industrial equipment operating at tem ratures up to 120°C.
- Meets: • David Brown Type M, A & E	Industrial gear oils, manufactured from selectively refined mineral oils and an EP - Extreme Pressure - type addi package. Products intended for highly loaded mechanical transmissions of industrial equipment operating at tem ratures up to 120°C.
-	Industrial gear oils, manufactured from selectively refined mineral oils and an EP - Extreme Pressure - type addi package. Products intended for highly loaded mechanical transmissions of industrial equipment operating at tem ratures up to 100°C.

Oleje sprężarkowe



Product name	Kinematic viscosity at 40°C [mm²/s]	Viscosity index	Flash point at m.p. [°C]	Pour point [°C]	Quality class	Approvals	Product description	
CORALIA L-DAA 46	44.7	100	223					
CORALIA L-DAA 68	68.0	97	248				Oils designed for the lubrication of air re-	
CORALIA L-DAA 100	97.4	99	270	-12	ISO 6743-3 L-DAA DIN 51506 VB, VBL	-	ciprocating compressors and rotary vane, drop-lubricated compressors with light	
CORALIA L-DAA 150	147.4	97	280				operating conditions.	
CORALIA L-DAA 220	216.4	97	285					
CORALIA L-DAB 32 ★	32.0	90	>200	-15				
CORALIA L-DAB 46	46.1	99	230	-15				
CORALIA L-DAB 68	65.8	100	242	-27			Oils intended for the lubrication of piston	
CORALIA L-DAB 100	96.3	99	263	-12	ISO 6743-3 L-DAB	-	and rotary vane air compressors, drip lubricated, with medium operating con-	
CORALIA L-DAB 150	145.1	97	276	-10			ditions.	
CORALIA L-DAB 320	320.9	92	296	-9				
CORALIA L-DAB 460	476.1	93	306	-6				
CORALIA VDL 32	30.8	-	175	-9				
CORALIA VDL 46	44.5	-	195	-12	ISO 6743-3 L-DAA, L-DAB	-	Oils designed for the lubrication of re- ciprocating, screw (with or without oil injection) and your (with all injection) air	
CORALIA VDL 68	64.7	-	195	-12	DIN 51506 VDL		injection) and vane (with oil injection) air compressors operating in medium con- ditions.	
CORALIA VDL 100	104.4	-	205	-9				
CORALIA T 46	41.7	-	232	-9	ISO 6743-3 L-DAH, ISO 6743-5 L-TSE, L-TGE DIN 51524 part 1 L-HL	-	Oil designed for the lubrication of rotary air compressors operating in medium conditions. It can also be used as a hy- draulic fluid in turbine control systems and to lubricate circulating systems of steam, gas and water turbines.	
CORALIA ST 32	32.2	102	219	-37	ISO 6743-3 L- DAH,	It has: Voith Variable Speed Drives (ISO	Oils designed for the lubrication of rotary screw air compressors operating in me- dium operating conditions with varying	
CORALIA ST 46	46.1	100	232	-33	ISO 6743-5 L-TSE, L-TGE DIN 51524 cz.1 L-HL	VG 32, 46) Meets: • Atlas Copco (ISO VG 32);	operating temperatures. They are used, among other applications, in the power generation industry for combined sys- tems of pumps, compressors, turbines	
CORALIA ST 68	66.8	101	248	-28		· Ingersoll-Rand (ISO VG 32)	with gears and couplings, and centrifugal rotary turbocompressors.	
CORALIA PE 32	32.4	-	-	-56			Synthetic oils (based on polyalphaole-	
CORALIA PE 46	45.2	-	-	-54	ISO 6743-3 L-DAJ	-	fins) for the lubrication of rotary, vane and screw air compressors operating under severe conditions.	
CORALIA PE 68	62.2	-	-	-48				
CORALIA PAG 85	89.4	216	304	-46	ISO 6743-3 L-DGC	-	Synthetic oil on the basis of water-inso- luble polyalkylene glycols for the lubrica- tion of screw compressors compressing natural gas, LPG, and other hydrocarbon gases operating under severe conditions. The product is not miscible with mineral oils or other synthetic oils and cannot be used to top up oil in these systems, or vice versa. When replacing the previously used mineral/synthetic compressor oil with the oil in question, a change opera- tion must be carried out in conjunction with cleaning and flushing of the com- pressor lubrication system.	

If you have any application concerns, please contact the Oil Service Team. Contact details on page 25 of the catalogue, e-mail: servis@orlenoil.pl



Oleje sprężarkowe

Product name	Kinematic viscosity at 40°C [mm²/s]	Viscosity index	Flash point at m.p. [°C]	Pour po- int [°C]	Quality class	Approvals	Product description	
CORALIA HC 100	101.8	-	236	-37	ISO 6743-3 L-DAA, DAG	_	Oils for reciprocating and rotary air compressors, lubricated by splashing	
CORALIA HC 150	136.4	-	248	-34	100 07 40 0 E DAA, DAG		or spraying, for normal and severe con- ditions.	
CORALIA VACUUM	103.8	-	280	-10*	-	-	Oil designed for use in rotary vacuum pumps.	
CORALIA K-20 🖈	-	22	235	-5	-	-	Oil in the SAE 60 viscosity class for the lubrication of medium and high-pressure special-purpose reciprocating compressors.	
CYLITEN 460 N 🔺	450.0	97	320	320 -8 ISO 6743-4 L-HL DIN 51506 VB, VBL		-	Oil belonging to the group of greased cylinder oils for the lubrication of: hi- gh-pressure cylinders of compressors, shunting parts and throttles of steam ma- chines and circulating systems requiring highly viscous, emulsifiable oils.	

* Freezing point [°C]

Product name	Kinematic uct name viscosity at 40°C [mm²/s]		Pour point [°C]	Quality class	Application		
FRIGOL POE 68	68.3	272	-42		Synthetic oils (polyester-based) for use in refrigeration com-		
FRIGOL POE 100	99.5	262	-33	ISO 6743-3 L-DRD	pressors and air-conditioning units with HFC, HCFC refrige- rants.		
FRIGOL M 68	66.4	202	-35	ISO 6743-3 L-DRE	Oil for the lubrication of all types of refrigeration compressors operating with refrigerants of the CFC (e.g. R12), HCFC (e.g. R22) groups and ammonia.		

Product name	roduct name Kinematic 50°C [mm²/s]		Freezing point [°C]	Quality class	Application	
FRIGOL TZ-13	13.4	176	-50	PN-C-96072:1974 TZ-13		
FRIGOL TZ-19	26.8	228	-34	PN-C-96072:1974 TZ-19	Oils for the lubrication of ammonia refrigeration compressors, e.g. two-stage compressors with a circulating lubrication system.	
FRIGOL TZ-28	29.5	230	-34	PN-C-96072:1974 TZ-28		
FRIGOL WZ	31.2*	164	-45	PN-C-96072:1974 WZ	Oil designed for the lubrication of ammonia and acid-carbon refrigeration compressors with evaporator temperatures up to - 45°C, e.g. single-stage, horizontal, slow-running compres- sors.	

If you have any application concerns, please contact the Oil Service Team. Contact details on page 25 of the catalogue, e-mail: servis@orlenoil.pl *Kinematic viscosity at20°C

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Turbine oils



Product name	Density at 15°C [kg/m³]	Kinematic viscosity at 40°C [mm²/s]	Viscosity index	Pour point [°C]	Flash point [°C]	Corrosion effect on Cu plate, 100°C/3h	Oil capacity at 50°C [min]	RPVOT (oxi- dation test) [min.]
TURBINEX POWER TG PREMIUM 32	857.3	31.9	115	-18	212	1	2.7	1520
TURBINEX POWER TG PREMIUM 46	857.3	46.6	113	-18	244	1	2.7	1447
TURBINEX TG PREMIUM 32	842.5	31.6	132	-24	244	1	2.1	>2300
TURBINEX TG PREMIUM 46	845.6	43.6	130	-21	250	1	2.5	>2300
REMIZ SUPER TG 32	844.5	32.7	129	-19	235	1	1.1	>1100
REMIZ SUPER TG 46	846.5	48.1	133	-16	254	1	2	>1000
REMIZ TG 32	867.1	31.7	100	-18	218	1	1.7	>750
REMIZ TG 46	873.2	45.4	99	-16	232	1	2,8	>750
REMIZ TU 32	867.8	31.8	99	-19	224	1	1.6	>400
REMIZ TU 46	873.0	45.6	98	-17	234	1	3	>400
REMIZ TU 68	873.8	66.0	99	-12	251	1	4.4	>400

Product name	Density at 15°C [kg/m³]	Kinematic viscosity at 40°C [mm²/s]	Kinematic viscosity at 50°C [mm²/s]	Pour point [°C]	Flash po- int [°C]	Corrosion effect on Cu plate, 100°C/3h	Deemul- sification number [s]	Standards	Product description
TURBINE T-30	871.0	51.1	-	-12	234	-	100	ISO 6743- 5 L-TSA	Turbine oils for the recirculating bearing lubrication of steam
TURBINEX T-30	876.9	49.6	30.1	-15	236	1	120	ZN-66/ MPCh/NF- 104	turbines, water turbines and geared turbine sets in the case of a common oil circuit.

If you have any application concerns, please contact the Oil Service Team. Contact details on page 25 of the catalogue, e-mail: servis@orlenoil.pl

MEETS - complies with the approval requirements IT HAS - is approved or certified

The ORLEN OIL portfolio has been expanded to include selected products from the LOTOS OIL range. These products are marked in the catalogue with the mark





Turbine oils

Quality class	Аррі	rovals	Product description		
DIN 51515 part 1 DIN 51515 part 2	It has: • DOOSAN Skoda Power Tp0010P	Meets: MAN TED 1000454696 Rev.03 Siemens TLV 901305 GEK 107395A Skoda Power Solar ES9-224 BS 489	Turbine oils recommended for lubrication and coolir bearings of gas and steam turbines, gas-steam turb operating in the CCGT combined cycle, also equi with gear transmissions. Oils designed for turbine sys where increased operating temperatures and press		
ISO 8068	It has: · MAN TED 1000454696 Rev.03 · DOOSAN Skoda Power Tp0010P	Meets: Siemens TLV 901305 Siemens TLV 901304 GE HTGD 90117 GEK 107395A Solar ES9-224 BS 489	occur. They can also be used as hydraulic fluids in turb control systems and for lubrication. The oils are characterised by very good oxidation resist ce and an extremely low tendency to form deposits.		
DIN 51515 part 1 DIN 51515 part 2 ISO 8068 DIN 51524 part 1 HL DIN 51517 part 2 CL	It has: Alstom HTGD 90117 Siemens TLV 901304 Siemens TLV 901305 Doosan Skoda Power	Meets: • Solar ES 9-224 • BS 489	Turbine oils recommended for lubrication and cooling o arings of gas and steam turbines, gas-steam turbines oper in the CCGT combined cycle, also equipped with gear t missions. Oils designed for turbine systems where incre operating temperatures and pressures occur. They can		
DIN 51515 part 1 DIN 51515 part 2 ISO 8068 ISO 6743-5 L TGE, L-TSE ISO 6743-4 L-HL ISO 6743-3 L-DAJ	It has: . · GE HTGD 90117 V0001 AD . · Siemens TLV 901304 . · Siemens TLV 901305 . It has: . · Alstom HTGD 90117 .	Meets: • Solar ES9-224	be used as hydraulic fluids in turbine control systems and lubrication of, among others. marine turbochargers of main a auxiliary engines powered by exhaust gases.		
	Siemens TLV 901304 Siemens TLV 901305 It has:				
DIN 51515 part 1 DIN 51515 part 2 ISO 8068 ISO 6743-5 L-TGE, L-TSE	Alstom HTGD 90117 Siemens TLV 901304 Siemens TLV 901305	Meets:	Turbine oils for the lubrication of gas turbines and rota compressors operating in average operating conditions i rious operating temperatures. They can be used, among things, in water, steam and gas turbines (also with gearb combined cycle power generation with a combined cycle		
ISO 6743-4 L-HL ISO 6743-3 L-DAH	It has: · Alstom HTGD 90117 · Siemens TLV 901304		combined cycle power generation with a combined cycle s tem for steam and gas turbine, hydrokinetic couplings v gearboxes, compressors, feed water pumps, circulating wa pumps and other auxiliary equipment.		
DIN 51515 part 1	It has: · Alstom HTGD 90117 · Siemens TLV 901304 · Skoda Energo	-	Circulating turbine oils recommended for the lubrication steam and water turbines and associated hydraulic and co systems at varying operating temperatures.		
ISO 8068 ISO 6743-5 L-TSA ISO 6743-4 L-HL	It has: · Alstom HTGD 90117 · Siemens TLV 901304	-			
	-	_			

Oils for gas engines



1		Kine- matic		Flash	Total alkali-	Struc- tural	Sulfa-		
	Product name	viscosity at 100°C [cSt]	Pour po- int [°C]	point at m.p. [°C]	ne number TBN [mgKOH/g]	viscosity of CCS at -20°C	ted ash [(%(m/m)]	Approvals	Product description
	DELGAS L 40	13.8	-18	272	5.4	-	0.48	It has: MWM TR-0199-99-2105; INNIO Jenbacher TA 1000- 1109, series 2, 3, 4 (version A and B) and 6 (version C and E), class A gases, Bergen Engines AS: type B35:40, C26:33 and type K engines, for medium-speed natural gas engines.	Oil for use in various types of sta- tionary, four-stroke gas engines (including Jenbacher, MWM, Ber- gen) powered mainly by natural gas. It can be used in three-way and selective catalyst systems.
	**DELGAS PREMIUM L 40	13.9	-18	276	4.6	-	0.53	-	Oil designed for use in various ty- pes of stationary, four-stroke gas engines (including Jenbacher) naturally aspirated and turbochar- ged, fuelled with methane-rich gases such as landfill gas, mine gas and biogas. It can be used in three-way and selective catalyst systems.
	DELGAS A 15W-40	14.7	-33	230	2.0	4880	0.09	-	An ashless oil designed for use in two-stroke natural gas-fuelled engines operating in gas transmis- sion and compression stations.
	DELGAS M 40	13.7	-31	274	10.5	-	0.89	-	Oil for use in various types of stationary, four-stroke, naturally aspirated and turbocharged gas engines powered by methane-rich gases such as landfill gas, mine gas and biogas. It can be used in three-way and selective catalyst systems.
	**DELGAS L 30 🛛 📩	12.5	-27	266	6.3	-	0.50	-	Low ash content engine oils for the lubrication of stationary engines
	**DELGAS L 10W-40 🌟	14.2	-39	226	6.3	5930*	0.50	-	running on natural gas and other similar mains fuels.
	DELGAS EXTRA 10W-40	14.1	-33	237	9.0	6260*	0.86	-	Medium ash content engine oil for the lubrication of stationary heavy-duty engines fuelled with high-sour natural gas or similar non-system gases with a highH- aScontent. Particularly recom- mended for Waukesha, Caterpillar, Jenbacher and Guascor engines.

If you have any application concerns, please contact the Oil Service Team. Contact details on page 25 of the catalogue, e-mail: serwis@orlenoil.pl

* Structural viscosity determined at -25°C

** Product available on request





SPECIALIST OIL SERVICE

ORLEN OIL was one of the first oil companies on the Polish market to introduce a comprehensive service offer for industrial companies using lubricants in their production processes .

Professional oil service - POWER SERVICE is a wide range of services provided directly to users.

Within POWER SERVICE, we can distinguish the following areas:

Oil monitoring (working fluid analyses) **>>>**

Successive analysis of the oil allows its condition to be assessed in terms of the degree of degradation, changes in performance properties and the presence of contaminants from wear processes and the machine's operating environment. Oil analyses provide information on the condition of the machine and enable early detection of worn components and parts, so that potential failures can be effectively prevented.



Maintenance of industrial oil systems

Maintenance of oil systems is primarily associated with oil filtration to the required cleanliness class, full replacement of hydraulic, gear, turbine and other oils, as well as supplementation of operating fluids (so-called top-ups) and cleaning of systems and tanks.

Application of process oils and operation of cooling lubricant systems for metal processing

Aqueous cooling and lubricating emulsions, used in metal cutting and grinding processes, require special supervision and care from the user during operation.

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Phone numbers:

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Oils for locomotives



Product name	API qualit class	SAE viscosity class	Kine- matic viscosity at 100°C	Viscosity index	Pour po- int [°C]	Flash po- int [°C]	Total alkali- ne number [mgKOH/g]	Product description
			[mm²/s]					
IBIS RDEO 40	CF/SF/CF-	4 40	14.5	102	-36	267	13.5	RDEO (Rail Diesel Engine Oil). They provide excellent lubrication for diesel locomotive
IBIS RDEO 50	CF/SF/CF-	4 50	18.5	100	-30	273	12.3	engines, auxiliary marine engines, stationary gensets operating under severe operating con- ditions. The oil can also be credited as meeting
IBIS RDEO 60	CF/SF/CF-	4 60	23.6	99	-24	292	12.3	the requirements of LMOA Generation V.
IBIS RDEO 70 HT	CF/SF/ CF-4	>60	28.4	98	-18	287	12.5	Seasonal (summer) type RDEO (Rail Diesel Engine Oil) provides excellent lubrication for four-stroke diesel engines used in rail- way machinery engines. It can be used for the lubrication of petrol and diesel engines in stationary gensets and technical equip- ment, auxiliary marine engines operating at very high ambient temperatures and severe operating conditions. The oil can also be cre- dited as meeting the requirements of LMOA Generation V.
IBIS RDEO HPD 40	CF-2/CF/ CD	40	15.0	95	-15	260	13.0	The oil is designed for the lubrication of he- avy-duty diesel railway internal combustion engines operating under severe operating conditions. It can also be used to lubricate die- sel engines of a similar type in other technical equipment. Recommended for engines whe- re an oil without zinc-containing additives is required. The product is approved by General Electric Generation 4 Long Life.
IBIS RDEO LA	CF	40	13.7	104	-34	270	14.0	Provides excellent lubrication for four-stroke diesel engines used in railway machinery en- gines, other land-based stationary engines, auxiliary marine engines where a zinc-free heavy-duty engine oil is required for design reasons. The oil has high dispersant-washing potential and oxidation resistance.
IBIS RDEO STANDARD 40	CD	40	15.3	95	-18	250	9.0	Mineral engine oil intended for the lubrication of high-performance, high-pressure railway combustion engines operating in difficult operating conditions. It can also be used to lubricate diesel engines of a similar type in other technical equipment.

If you have any application concerns, please contact the Oil Service Team. Contact details on page 25 of the catalogue, e-mail: serwis@orlenoil.pl

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Shipping oils

Product name		Kinematic viscosity at 100°C [cSt]	Total alkali- ne number TBN [mgKOH/g]	Pour po- int [°C]	Viscosity and quali- ty class	Approvals	Product description		
MARINOL RG 330	*	11.5	4	-15	SAE 30				
MARINOL RG 350	*	18.0	4	-12	SAE 50	_	SO (System Oil) type oils for engines running on light fuel.		
MARINOL RG 630	*	11.5	7	-15	SAE 30	-	Designed for the recirculating lubrication of marine propel- ler engines.		
MARINOL RG 640	*	14.5	7	-15	SAE 40	-	······		
MARINOL RG 650	*	18.5	7	-12	SAE 50				
MARINOL RG 1030	*	11.5	11	-15	SAE 30				
MARINOL RG 1040	*	14.5	11	-15	SAE 40				
MARINOL RG 1230	*	11.5	13	-15	SAE 30, API CF	-	TPEO (Trunk Piston Engine Oil) type oils, designed for the		
MARINOL RG 1240	*	14.5	13	-15	SAE 40, API CF	-	lubrication of marine unshielded engines operating on light fuel.		
MARINOL RG 1530	*	11.5	16	-15	SAE 30,	-			
					API CF SAE 40,	-			
MARINOL RG 1540	*	15.0	16	-15	API CF SAE 30,	_			
MARINOL RG 2030	*	11.5	21	-15	API CF	Meets:	TPEO (Trunk Piston Engine Oil) type oils, intended for cir- culating-cylinder lubrication of main drive main drive pi- stonless marine engines operating on fuel with a sulphur content of up to approximately 2 %.		
MARINOL RG 2040	*	14.5	21	-15	SAE 40, API CF	 Pielstick MAN B&W 			
MARINOL RG 2050	*	22.0	21	-12	SAE 50, API CF	 MAN Augsburg New Sulzer Diesel Wartsila 	Trunk Piston Engine Oil (TPEO) for cylinder lubrication of callused engines during run-in and low sulphur fuel ope- ration.		
MARINOL RG 2550	*	19.5	25	-18	SAE 50		Modern cylinder oil (MCL) for two-stroke marine engines and for the lubrication of main propulsion callout engines.		
MARINOL RG 3030	*	11.5	32	-15	SAE 30, API CF				
MARINOL RG 3040	*	14.2	32	-15	SAE 40, API CF		TPEO (Trunk Piston Engine Oil) oils, intended for circula- ting-cylinder lubrication of marine main drive pistonless engines and units operating on heavy fuel.		
MARINOL RG 4030	*	11.7	40	-15	SAE 30, API CF				
MARINOL RG 4040	*	14.5	40	-12	SAE 40, API CF	-			
MARINOL RG 4050	*	19.5	40	-27	SAE 50	It has: · WinGD · MAN			
MARINOL RG 7050	*	19.2	70	-27	SAE 50	Meets: · Pielstick · New Sulzer Diesel			
MARINOL RG 8550	*	20.0	87	-27	SAE 50	-			
MARINOL RG 10050	*	19.5	100	-27	SAE 50	It has: · MAN Meets: · WinGD · Pielstick · New Sulzer Diesel	Modern cylinder oils (MCL) for two-stroke ship engines and for circulating-cylinder lubrication of main drive engines.		
MARINOL RG 14050	*	19.5	140	-24	SAE 50	Meets: · WinGD · MAN · Pielstick · New Sulzer Diesel			
MARINOL MW 50	*	21.0	4.0	-18	SAE 50	-	Oil designed for the lubrication of high-pressure, high- speed marine engines operating on light fuel. Ensures proper lubrication of the cylinder and crankshaft systems of engines.		
MARINE OIL SC-22	*	22.0	-	-5	SAE 60	-	Engine oil for cylinder lubrication of high-power marine engines.		

If you have any application concerns, please contact the Oil Service Team. Contact details on page 25 of the catalogue, e-mail: serwis@orlenoil.pl *Other products from the MARINOL range available on special request.

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Machine oils



Product name	Density at 15°C [kg/m³]	Kinematic viscosi- ty at 40°C [mm²/s]	Kinematic vi- scosity at 100°C [mm²/s]	Viscosity index	Pour point [°C]	Flash point [°C]
VELOL P 150	878.1	152.9	15.5	102	-33	280
VELOL P 220	885.6	228.9	19.9	101	-27	284
VELOL M 220	897.0	217.2	18.3	92	-15	250
VELOL M 320	900.0	327.6	24.3	95	-21	290
VELOL M 460	902.0	475.0	30.6	93	-15	315
VELOL RC 32	875.7	32.9	-	101	-21	215
VELOL RC 46	881.9	47.2	-	101	-18	217
VELOL RC 68	874.5	71.5	-	>95	-21	>220
VELOL RC 100	887.9	98.4	-	98	-15	243
VELOL RC 220	889.6	221.5	-	>95	-12	>230
VELOL RC 320	900.4	315.3	-	92	-12	255
VELOL 9Q	844.2	10.0 *	-	-	-44	146
VELOL 19	856.6	20.2 *	-	-	-43	168
VELOL 8	866.9	12.2	-	100	-12	176
VELOL 10	864.2	21.1	-	100	-27	196
VELOL 15	874.3	31.5	-	102	-24	222
VELOL 20	879.2	45.4	-	99	-15	222
VELOL 50	888.1	99.3	-	91	-24	264
VELOL 60	891.9	115.6	-	93	-15	232
L-AN 10	853.4	10.3	2.7	101	-18	154
L-AN 15	850.4	16.2	3.6	110	-15	172
L-AN 22	863.2	21.1	4.2	99	-15	210
L-AN 32	873.1	36.3	5.7	96	-18	224
L-AN 46	879.4	45.4	6.6	98	-12	225
L-AN 55	883.0	58.1	-	97	-9	244
L-AN 68	874.5	66.4	8.4	97	-9	240
L-AN 100	876.6	98.4	10.9	95	-9	258
L-AN 150	883.0	145.1	13.8	90	-9	276

If you have any application concerns, please contact the Oil Service Team. Contact details on page 25 of the catalogue, e-mail: servis@orlenoil.pl *Kinematic viscosity at 20°C

Machine oils



Quality class	It meets the requirements of:	Product description						
DIN 51502 C	Meets: • DIN 51517-1 C • DIN 51517-2 CL	Circulating oils characterised by very good oxidation resistance and good water release properties. T products are compatible with SRE-NBR 28/SX type seals and are used in machine circulation systems, l and medium duty enclosed gearboxes and light duty, reciprocating, rotary, vane, air compressors.						
-	-	Fluid friction bearing oils for large metallurgical units in the sheet rolling process. In addition, they can used as non-emulsifying, refined high-quality machine oils. The products meet MORGOIL's basic requi ments.						
	Meets: · Fives Cincinnati P-53	-						
	- Meets:							
60 6743-13 GB IN 51502 CG	· Fives Cincinnati P-47	Oils for all types of slideways and, in particular, for the lubrication of horizontal slideways operating moderate temperatures and under moderate to medium loads. They guarantee proper slide operation w particular emphasis on proper friction characteristics and the elimination of the stick-slip phenomenon						
	Meets: · Fives Cincinnati P-50							
	-							
-	-	Machine oils for through- and bath lubrication of high-speed textile machine components, machine to and other precision equipment components in accordance with lubrication instructions. They can also used for machining metals: steel, brass, e.g. turning, milling, threading, etc.						
ISO 6743-1 AN	-	Oils used for lightly and moderately loaded, rotating machine parts such as rolling and plain bearin guides or spindles. They can also be used in washing and rinsing processes for mechanical compone of machines and tanks.						
ISO 6743-1 AN DIN 51502 AN	Meets: • DIN 51501	Machine oils for lightly to moderately loaded operating elements of industrial machines and equipme such as rolling and sliding bearings, guides, mechanical gears, spindles and auxiliary friction nodes.						

Machine oils



Product name	Density at 15°C [kg/m³]	Kinematic viscosi- ty at 40°C [mm²/s]	Kinematic vi- scosity at 100°C [mm²/s]	Viscosity index	Pour point [°C]	Flash point [°C]
L-AN 10Z 🔶	879.0	10.5	-	100	-40	158
L-AN 22Z 🔶 📩	870.0	22.0	- 90		-42	199
L-AN 15Z	853.8	15.8	-	-	-33	-
L-AN 46Z	880.8	48.1	-	-	-30	-
L-AN 68Z	885.5	66.2	-	-	-24	-
L-AN 320Z	899.6	328.5	-	-	-18	281

Product name	Density at 15°C [kg/m³]	Kinematic viscosity at 50°C [mm²/s]	Kinematic vi- scosity at 100°C [mm²/s]	Freezing point [°C]	Flash point [°C]	Acid number [mg KOH/g]
LUBRICATED MACHINE OIL MN-11	896.0	82.2	-	-13	292	0.15
LUBRICATED MACHINE OIL MN-15	898.4	111.2	-	-13	286	0.02
CYLINDER OIL CL-17 (PN-240)	893.4	-	22.7	-9	>240	-
CYLINDER OIL CL-30 (PP-280)	901.2	-	39.7	-9	>280	-
CYLINDER OIL CL-40 (PW-300)	902.0	-	55.0	-9	>300	-
CYLINDER OIL CL-1500	903.0	1472.0 **	-	-	330	-
CYLINDER OIL P 28	904.0	-	29.4	-6	308	-
CYLINDER OIL B 28	902.8	-	31.3	-6	325	-
U AXLE OIL	874.4	44.0	-	-230	246	-

If you have any application concerns, please contact the Oil Service Team. Contact details on page 25 of the catalogue, e-mail: serwis@orlenoil.pl **Kinematic viscosity at 40°C

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Quality class	It meets the requirements of:	Product description						
ISO 6743-1 AN DIN 51502 AN	Meets: ∙ DIN 51501	Low-solidification machine oils intended for lightly or medium-loaded working elements of industrial ma- chines and devices, such as: rolling and sliding bearings, guides, mechanical gears, spindles and auxiliary friction nodes.						

Standards	Product description
PN-56/C-96074	Lubricated machine oils are a mixture of mineral oils with oxidised vegetable oil. They are used for the lubrication of: steam engine bearings of rolling stock, bearings exposed to contact with water, with which lubricated machine oils form a permanent lubricating emulsion, and machine bearings exposed to higher specific loads.
PN-61/C-96095 DIN 51519, DIN 51510 for oil class ZB	The oils are designed for the lubrication of cylinders, shunting parts and stuffing boxes of steam engines, circulating systems requiring high-visco- sity, non-emulsifying machine oils, mechanical transmissions and other heavy-duty systems requiring oil with high adhesion and water resistance. Cylinder oils are used in machine systems with saturated steam at temperatures: • up to250°C- CL-17 cylinder oil (PN-240) • up to 290°C- cylinder oil CL-30 (PP-280) • up to310°C- CL-40 cylinder oil (PW-300)
DIN 51519, DIN 51510 for ZB oil class	Cylinder oil for the lubrication of guides and cylinders of steam machines, other systems where there is the possibility of contact with high-tempe- rature steam, high-pressure cylinders of compressors, shunting parts and glands of steam machines and others requiring the use of high-viscosity oil.
-	Cylinder oils are designed for the lubrication of cylinders, shunting parts and stuffing boxes of steam engines. The main function of these oils is to prevent ring and cylinder wear and to seal spaces operating at high temperatures and with steam.
PN-61/C-96097	Oil primarily intended for the lubrication of slide bearings of steam locomotives and railway and tramway cars.

Process oils



Product name		Density at 15°C [kg/m³]	Kine- matic viscosity at 40°C [mm²/s]	Kine- matic viscosity at 100°C [mm²/s]	Viscosity index	Pour po- int [°C]	Flash po- int [°C]	Quality class	Product description
GRAPHITOL	*	900	545.0	34.0	-	-12	325	ISO 6743-1 L-AN DIN 51502 AN	A process oil used mainly in the produc- tion of printing inks and as an ingredient in rubber compounds. It is also used as a release agent in mineral wool proces- sing and other non-standard applica- tions requiring a technologically clean, high-viscosity process oil.
KVG 68 OIL	*	874	68.5	8.7	99	-15	255		Mineral process oils for a variety of
KVG 100 OIL	*	875	98.0	11.2	99	-12	272		processes, such as the production of plasticisers, rubber compounds, resin viscosity modifiers and adhesive com- ponents. Also used as lubricants and for unconventional industrial solutions. KVG 150 Z oil additionally has a reduced flow point - possible operation at redu- ced temperatures. KVG 460 oil is used for thermal insulation and other specific
KVG 150 OIL	*	883	151.5	14.9	97	-14	285	ISO 6743-1 L-AN DIN 51502 AN DIN 51517 CL	
KVG 150 Z OIL	*	884	153.6	15.0	98	-25	275		
KVG 460 OIL	*	898	453.1	-	95	-6	315		applications.
KVG 1000 OIL	*	-	1000.0	-	-	-	230	ISO 6743-1 L-AN DIN 51502 AN DIN 51517 CL	Mineral process oil mainly used as a raw material for rubber compounds.
VASELINE OIL 17	*	850	16.5	-	-	-6	198	ISO 6743-1 L-AN ISO 6743-2 L-FC DIN 51502 AN DIN 51517 CL	Oil for lubrication of precision machi- nery and equipment (bearings, guides, mechanical gears, spindles, etc.), high- -speed bearings (headstock) and auxi- liary friction nodes.

If you have any application concerns, please contact the Oil Service Team. Contact details on page 25 of the catalogue, e-mail: servis@orlenoil.pl



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Anti-adhesive oils

Product name	Density at 15°C [kg/m³]	Kinematic viscosity at 40°C [mm²/s]	Flash po- int [°C]	Acid num- ber [mg KOH/g]	Quality class	Application method	Product description
KONKRETON V-BIO	877.3	7.1	150	6.4	ISO 6743 B	· spray	Low viscosity, biodegradable release oils for lubrication of moulds made of steel, aluminium, plastic and wood, used in the manufacture
KONKRETON BIO-BIT	884.7	10.7	-	-	ISO 6743 B	· roller	of precast concrete and other concrete components. The products also protect steel moulds against corrosion in the short term.
KONKRETON V	842.7	4.7	146	6.1	ISO 6743 B	· spray	Release oil for lubrication of moulds used in the manufacture of pre- cast concrete elements and other concrete components. The pro- duct can be used to lubricate cold metal and plastic moulds.
KONKRETON VS	849.4	5.7	115	6.2	ISO 6743 B	· spray	Release oil for lubrication of moulds used in the manufacture of pre- cast concrete elements and other concrete components. The pro- duct can be used to lubricate cold moulds.
KONKRETON L	866.5	21.8	222	3.3	ISO 6743 B	· spray	Anti-adhesive oil intended for lubrication of cold moulds used in the production of concrete elements and blocks made of light aerated concrete.
KONKRETON L PLUS	878.5	76.5	260	2.9	ISO 6743 B	· brush	Oil for lubricating moulds as a release agent in the manufacture of cellular concrete. The oil ensures easy separation of the product and protection of the mould from corrosion.
KONKRETON N	878.2	38.8	228	3.1	ISO 6743 B	· spray	Anti-adhesive oil intended for lubrication of moulds used in the pro- duction of concrete elements and blocks made of light aerated con- crete. Oils can be used to lubricate cold moulds by spraying in the manufacture of cellular concrete.
KONKRETON P	887.4	79.8	254	3.2	ISO 6743 B	· brush	Anti-adhesive oil intended for lubrication of moulds used in the production of concrete elements and blocks made of light aerated concrete.
KONKRETON S	891.1	112.5	278	3.3	ISO 6743 B	· spray · roller	Release oils for lubrication of moulds used in the manufacture of cellular concrete blocks, where an increased thickness of the sepa- ration layer is required. Thanks to their suitably selected properties,
KONKRETON XS	894.4	156.1	280	3.0	ISO 6743 B		the products can be used in the production process all year round.
KONKRETON AZ	845.5	9.4	156	3.2	ISO 6743 B	· spray · brush	Anti-adhesive oil intended for the lubrication of moulds used in the production of lightweight aerated concrete blocks, concrete rings and fences, and prefabricated concrete elements of various sizes.
KONKRETON MK S-E	874.6	7.2	142	6.7	ISO 6743 B		
KONKRETON MK S-L	863.5	6.2	150	6.4	ISO 6743 B	· spray	Low viscosity anti-adhesive oils intended for the lubrication of molds
KONKRETON SEPAR	864.3	5.5	142	13.4	ISO 6743 B	· brush	made of steel, aluminum, plastics and wood used in the production of prefabricated concrete and ceramic elements.
KONKRETON SDA	866.5	7.8	154	10.7	ISO 6743 B	· roller	or prefabricated concrete and ceramic elements.
KONKRETON 30	867.8	6.8	146	74	ISO 6743 B		
ANTI-ADHESIVE OIL B-0	864.1	17.5	184	6.0	ISO 6743 B	 spray brush 	Anti-adhesive oil for lubrication of steel moulds with large surface areas and high unit pressures.
FORMEX Q	847.8	12.5*	110	5.9	ISO 6743 B	 spray brush roller 	Anti-adhesive oil for lubrication of steel moulds in the production of precast concrete and reinforced concrete elements, as well as for steel and wooden formwork in the construction industry.
FORMEX XS	829.5	1.4*	82	>0.5	ISO 6743 B	· spray brush	Oil for lubricating moulds as a release agent in the manufacture of cellular concrete. The oil ensures easy separation of the product and protection of the mould from corrosion.
CERAMOL Q	835.8	4.3*	100	5.4	ISO 6743 B	· spray · brush · roller	Oil used in the manufacture of stoneware and porcelain and electrical porcelain.
CERAMOL B	839.2	11.3*	75	5.2	ISO 6743 B	 spray brush roller 	Anti-adhesive oil used in the ceramic industry, in the production of stoneware, porcelain and electrical porcelain as a compound. The product is used to improve the demoulding of manufactured pro- ducts, to prevent the mass from sticking to the moulds and to protect the moulds from corrosion.
OIL FOR CERAMICS BQ	835.2	4.3*	100	6.2	ISO 6743 B	· spray · brush · roller	Anti-adhesive oil used in the manufacture of ceramic products. The product is used in the production of stoneware and porcelain pro- ducts and electrical porcelain as a component of kaolin mass.
SEPARATION OIL	881.9	30.3	202	-	-	· spray · brush	Separation oil for the preparation of a water-in-oil emulsion used to eliminate the phenomenon of asphalt mass sticking to metal surfaces of asphalt transport vehicles, road paving machines and road rollers.

If you have any application concerns, please contact the Oil Service Team. Contact details on page 25 of the catalogue, e-mail: serwis@orlenoil.pl * Kinematic viscosity at 20°C [mm²/s]

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Oleje emulgujące do obróbki metali



	Product name	Kinematic viscosity of the concentrate at 40°C [mm²/s]	Emulsion appe- arance at 20°C	5% emul- sion pH	Corrosion pro- tection capacity on steel plates using the Herbert method	Emulsion stability at 24h/20±50°C	Refractometric index at 20°C	Water hardness [°n]
	UNICOOL MIKRO EP	65.0	Transparent to opalescent liquid	9.2	НО	withstands	1.4	From 10 °n to 20 °n
	UNICOOL MIKRO E	1.0	Transparent to opalescent liquid	-	но	withstands	2.5	From 10 °n to 20 °n
	UNICOOL MIKRO 40 P	15.8	Transparent to opalescent liquid	9.4	HO	withstands	2.3	From 10 °n to 15°n
-	UNICOOL MIKRO 40 PS	5.6	Transparent to opalescent liquid	9.4	HO	withstands	1.9	From 10 °n to 15°n
	UNICOOL MIKRO 40 PW	15.8	Transparent to opalescent liquid	9.4	НО	withstands	2.3	From 10 °n to 15°n
	UNICOOL AL.	54.0	-	9.3	-	-	1.1	< 10 °n
	UNICOOL WO 🔶	29.0	Milk emulsion	9.2	H0	withstands	1.5	From 10 °n to 15 °n
	UNICOOL WO PRO 🛛 🌟	68.0	Milk emulsion	9.6	но	withstands	1.0	From 10 °n to 25 °n
	UNICOOL WO PRO MW	69.0	Milk emulsion	9.7	но	withstands	1.0	From 10 °n to 25 °n
-	EMULGOL DS 30	28.5	Milk emulsion	9.2	но	withstands	1.5	From 10 °n to 15 °n
	EMULGOL ES-12	30.5	Milk emulsion	9.1	H0	withstands	1.4	From 10 °n to 15 °n



Oleje emulgujące do obróbki metali

Material to be proces- sed	Recommended working concentrations	Product description Semi-synthetic emulsifying concentrate (microemulsion) with additives, used for heavy metalworking operations: cutting, ding.		
 steel cast iron non-ferrous metals very hard materials, e.g. alloy steels 	 heavy grinding: 3-5%, heavy chip machining (turning, milling): 3-5%, very heavy chip machining (reaming, threading): 5-8%. 			
 cast iron iron alloys and stainless steel aluminium alloys plastic materials 		Semi-synthetic emulsifying concentrate (microemulsion), used for t machining processes: turning, milling, drilling, reaming, threading, sh grinding. Suitable for low and high pressure CNC systems. It can be u central systems and in individual machines.		
 cast iron iron alloys and stainless steel aluminium alloys plastic materials 	 normal machining (turning, milling): light (3%), medium-heavy (5-6%), grinding: light (1.5-2%), medium-heavy (3-5%), pressing, moulding: light (3-4%), medium-heavy (5-6%), reaming: light (4-5%), medium-heavy (8-10%). 	Semi-synthetic concentrate (microemulsion), used for typical mac processes: turning, milling, forming, grinding. Suitable for low and pressure CNC systems. It can be used in central systems and in indi machines. The product should be stored at a temperature of +10°C to in the manufacturer's packaging protected from dust, frost and exc heat.		
 steel cast iron copper aluminium and its alloys 		Semi-synthetic concentrate (microemulsion), used for typical machinin cesses: turning, milling, drilling, reaming, drilling deep holes, threadin ming, grinding. Suitable for low and high pressure CNC systems. It can be in central systems and single machines.		
 cast iron iron alloys and stainless steel aluminium alloys plastic materials 	 normal machining (turning, milling): light machining (3%), medium machining (5-6%), heavy machining (7-8%), grinding: light (1.5-2%), medium (3-5%), heavy (3-5%), heavy machining (threading, deep hole drilling): light machining (3-4%), medium (6-8%), heavy (9%), stamping, forming: light machining (3-4%), medium machining (5-6%), heavy machining (6-8%), reaming: light machining (4-5%), medium machining (8-10%), heavy machining (10-12%). 	Semi-synthetic concentrate (microemulsion), used for typical mach processes: turning, milling, drilling, reaming, drilling deep holes, threa forming, grinding. Suitable for low and high pressure CNC systems. It ca used in central systems and single machines.		
 aluminium aluminium alloys steel and copper alloys 	 grinding: (3-5%), rough turning: (3-5%), smooth turning, finishing reaming, threading: (5-8%), extrusion: (8-20%). 	Semi-synthetic concentrate (microemulsion) for universal use in meta ting operations. Suitable for low and high pressure CNC systems. It ca used in central systems and in individual machines.		
steel On water with general hardness to 15°N: cast iron · grinding: (3-4%), non-ferrous metals and their alloys · normal chip machining (e.g. turning, milling): (4-8%), copper and aluminium alloys · heavy chip machining (e.g. threading): (8-10%, up to 15% for very heavy machining).		Cooling lubricant liquid (milk emulsion) used for various machi operations.		
 steel cast iron non-ferrous metals and their alloys copper and aluminium alloys 	On water with general hardness to 15°N: • turning, milling (5-8%),	Cooling lubricant liquid (milk emulsion) used for various machining o tions on metals and their alloys, in heavy-duty operations requiring er ced lubricating properties. The product is free of boron compounds, fo dehyde, phenol, chlorine and heavy metals.		
 steel cast iron non-ferrous metals and their alloys aluminium alloys copper alloys 	 grinding: (3-5%), threading: (10-12%), plastic processing: (5-12%). 	Cooling and lubricating liquid (milky emulsion) used for various types of chining operations of metals and their alloys, in particular aluminium al in heavy operations requiring increased lubricating properties. The produ free of boron compounds, formaldehyde, phenol, chlorine and heavy met		
 steel cast iron non-ferrous metals and their alloys copper and aluminium alloys 	On water with general hardness to 15°N: • grinding: (3-5%),	Cooling lubricant liquid (milk emulsion) used for various mach operations.		
steel steel cast iron non-ferrous metals and their alloys copper and aluminium alloys		Cooling lubricant liquid (milk emulsion) used for various mac operations.		

Non-emulsifying oils for metal processing



Product name	Density at 15°C [g/cm³]	Kinematic viscosity at 40°C [mm²/s]	Pour point [°C]	Flash point [°C]	Welded load [kG]
ACP-1E	0.86	16.7	-3	148	-
ACP-2E	0.87	21.3	-15	153	-
ACP-3E	0.87	26.5	-1	159	-
ACP-1L	0.86	26.0	-24	225	-
ACP-2L	0.87	33.0	-21	230	-
FREZOL HC 800	0.90	22.8	-21	172	620
FREZOL HC 2200	-	25.0	-	-	700
FREZOL WS 8	0.88	8.0	-	125	-
FREZOL WRA 32 📩	0.86	28.0	-21	220	-
FREZOL EPX 22	0.89	23.0	-15	170	450
FREZOL EPX 32	0.89	31.5	-12	230	500
FREZOL EPX 46		44.5	-12	240	500
FREZOL EP 5	0.87	5.2	-	120	-
FREZOL EP 32	0.89	33.2	-	205	-
FREZOL 22	0.87	22.0	-	-	200
FREZOL 32	0.88	30.0	-	-	200
FREZOL C 3280	0.90	55.0	-	-	>800

If you have any application concerns, please contact the Oil Service Team. Contact details on page 25 of the catalogue, e-mail: serwis@orlenoil.pl

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Machining processes	Product description
 shape turning of steel, cast iron and copper and alumi- nium alloys machining of serrations by chiselling reaming with multi-cutters thread cutting 	
 peripheral milling reaming steel with a multi-blade reamer thread cutting rolling shaving dragging and shoving 	Cutting oils for machining steel, cast iron, copper alloys and aluminium at high specific pressures and high cutting speeds. ACP machining oils are environmentally friendly, chloride-free, non-emulsifying metalworking oils.
e deep drilling working on automatic machines	-
- drilling - rolling - threading - milling	Cutting oils for machining steel, cast iron, copper alloys and aluminium at high specific pressures and high cutting speeds.
 milling (e.g. gears) rolling threading reaming shaving chiselling and broaching 	New generation, non-emulsifying oil designed for use in heavy metalworking operations where a coolant with high lubricating film strength and high anti-wear properties is required.
- honing - grinding - lapping	Oil recommended for machining steel, non-ferrous metals and carbides during heavy and medium duty machining operations. It was developed for metalworking processes where mineral-based machining oils do not work.
 rolling cutting milling swelling embossing 	High-quality, non-emulsifying oil dedicated to chip machining and forming of ferrous and non-ferrous alloys - in particular aluminium alloys. It has improved lubricating properties, making it recommended for more difficult machining operations on aluminium alloys.
rolling broaching milling chiselling threading reaming cutting	Machining oils designed for use in operations that require a coolant with a high lubricating film strength. Particularly suitable for machining hard-to-cut, stainless and acid-resistant steels.
• grinding • contour grinding	Oil intended for use in high-speed grinding and shape grinding of elements made of heat-treated alloy steels.
· rolling · broaching · milling · chiselling	Oil intended for use in machining processes that require a coolant with a high lubricant film strength. Recommended for machining stainless and acid-resistant steels.
· milling (e.g. gears) · rolling · threading	Oils designed for use in light to medium processing operations on copper and its alloys and ferrous and non-ferrous metals.
-	Non-emulsifying concentrate for heavy metal machining, designed as an EP booster at a minimum of 10% to the oil used in the system. It guarantees improved EP properties of the system, which consequently facilitates the machining of difficult-to-machine parts.

Non-emulsifying oils for metal processing



Product name	Density at 15°C [g/cm³]	Kinematic viscosity at 40°C [mm²/s]	Pour point [°C]	Flash point [°C]	Welded load [kG]
FREZOL CUT 3	0.84	4.5	-66	134	-
FREZOL CUT 25	0.88	22.8	-	-	620
FREZOL CUT 25 A	0.88	23.0	-12	198	-
FREZOL CUT 32	0.88	34.4	-12	224	-
FREZOL CUT 32 A	0.88	32.0	-12	224	-
FREZOL CUT OC	0.88	15.8	-12	182	-
FREZOL CUT OC MULTI	0.88	15.8	-12	180	800
FREZOL CUT EC AL	0.87	12.5	-57	176	-
FREZOL UNICUT 22	0.88	24.8	-15	200	-
FREZOL UNICUT 32	0.89	36.7	-12	202	-
SULFOFREZOL 22	0.87	22.0	-16	162	-
SULFOFREZOL 36 🔶	0.87	36.0	-15	215	-
SM METALWORKING OIL	0.87	23.3	-6	180	
MILTRON AM 46	0.88	43.5	-18	220	250
LAPENOMIL LLE 🔶	0.84	8.0	-	170	-



Machining processes	Product description
 grinding metal honing 	A machining oil designed for specific ferrous metal finishing work and the machining of steel and aluminium alloys.
	Machining oil for use in high-performance grinding operations and for machining with precision tools at low to medium cutting speeds. Suitable for machining steel and non-ferrous metals. The product is not dedicated to the treatment of copper and its alloys.
· grinding · rolling	Machining oil for use in high-performance grinding operations and for machining with precision tools at low to medium cutting speeds. The product is not dedicated to the treatment of copper and its alloys.
· milling · drilling · threading	A versatile machining oil for a wide range of applications, both for operations with precisely defined tool geometries and for grinding. Suitable for processing steel, non-ferrous metals and yellow metals. It can be used as a multifunctional circulating oil.
	Universal machining oil with a wide range of applications, both for operations with precisely defined tool geometry and for grinding. Suitable for machining steel and non-ferrous metals. The product is not dedicated to the treatment of copper and its alloys. It can be used as a multifunctional circulating oil.
 rolling milling drilling (including deep) internal and external threading grinding 	Oil designed for machining operations with precisely defined tool cutting geometry. Recommended even for machining materials with very poor machinability.
 rolling milling drilling reaming 	Machining oil mainly for NC and CNC machining centres and for machining non-ferrous metals and their alloys. It provides an excellent effect of both cutting and cooling.
 milling rolling internal and external threading drilling (including deep) 	Oils intended for machining operations with precisely defined tool tip geometry. Recommended even for machining materials with very poor machinability and for complex machining operations performed in gear manufacturing. Not suitable for processing non-ferrous metals.
· machining	A depressant and sulphurised mineral oil for machining steel and cast iron at high speeds and high cutting edge temperatures, and for machining high-strength and heat-resistant steels. Not recommended for machining non-ferrous metals and where a high surface smoothness class of the workpiece material is required. Active sulphur content 0.40% (m/m).
 drilling rolling threading milling chiselling 	Machining oil with sulphurised mineral oils, used for the machining of steel and cast iron at high speeds and high cutting edge temperatures and for the machining of high-strength and heat-resistant steels. Not recommended for processing non-ferrous metals, especially copper and its alloys.
 machining broaching threading 	Greasing oil is used as a finished coolant for machining alloys: iron, non-ferrous metals at low cutting speeds and cutting tool cutting edge temperatures of up to 120°C.
· drilling · rolling · threading	Multifunctional machining oil for lubricating and cooling tools in steel machining. It fulfils the functions of a circulating oil and its innovative technology also allows it to be used safely in the hydraulic and gear systems of processing equipment.
 honing lapping grinding 	Non-emulsifying oil for honing, lapping, grinding, final dressing of ferrous and light metals and chip machining of ferrous and non-ferrous alloys.

Oils for plastic processing



Product name	Density at 15°C [g/cm³]	Kinematic viscosity at 40°C [mm²/s]	Open cup flash point [°C]	Lubricating properties - weld load [kG]	Product description
PRESSOL PT 1	0.78	1.0	52	-	Oil mainly for use in the stamping process of painted steel sheets in roofing manufacture. The surface of the sheet metal after treatment does not require degreasing or other cleaning operations. The product can be applied to the sheet metal surface by brush, roller and by spraying.
PRESSOL M	0.80	1.4	64	-	Evaporation fluid for machining aluminium and steel sheets in stamping, punching, profiling and perforating processes. Does not stain treated surfaces.
PRESSOL WK	0.90	86.0	214	800	Lubricating and cooling oil recommended for precision extrusion and rolling processes. The product has additives that provide increased lubricating film strength, improved anti-corrosion performance and facilitate the washing process of components after machining operations.
PRESSOL ST	-	205.0	-	800	Oil for extrusion (all types of presses) and hollowing in the cold forming process. The product is recommended for all types of materials, including aluminium and copper.
DEEP STAMPING OIL	0.91	330.0	240	620	The oil is used when stamping workpieces with difficult geometries and sharp curves that require very high pressures, e.g. when stamping bath tubs, sinks made of steel, high-alloy and stainless steel cold- rolled sheets.
PLASTIC PROCESSING OIL OP-35	0.90	84.0	222	500	Forming oil used as a coolant and lubricant in the cold forging process. Product formulated on the basis of sulphurised mineral oil and additives with antioxidant and anticorrosive effects.

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Maintenance oils

Product name	Density at 15°C [kg/m³]	Kinematic viscosity at 20°C [mm²/s]	Kinematic viscosity at 40°C [mm²/s]	Freezing point [°C]	Flash point [°C]	Protective properties	Product description
AKORINOL ŁT 🔺	826.0	4.5	-	-	75	Corrosion test on steel plates (96h, 50°C) - withstands	Oil for cleaning metal products including rolling bearing components and for inter- mediate corrosion protection.
AKORINOL L-5Q	835.5	5.2	3.2	-15	92	-	Oil recommended for cleaning metal pro- ducts and for inter-operation anti-corro- sion protection. In addition, the product washes away and dissolves lubricant-ba- sed impurities.
ANTICOL 101	872.1	-	10.8	-	174	Corrosion from inorganic salts - after 24 h - withstands	Maintenance oil recommended for tem- porary protection against atmospheric corrosion of components made of ferrous and non-ferrous metals. The product can be used to maintain and lubricate we- apons, machinery, precision mechanisms and spare parts. Because it is compatible with fuel fractions and forms a thin film of oil films, it can serve as a preservative for engines and injection pumps.
ANTICOL M 🔺	881.0	-	88.0	-25	266	Corrosion from inorganic salt - after 12 hours - withstands	Protective Oil M is designed for the tem- porary protection of metal surfaces and steel components of gears, hydraulic and precision equipment and others except internal combustion engines and rolling bearings. The oil is not recommended for use as an anti-corrosion agent for sea transport.
ANTYKOL 100 S	891.7	-	105.9	-26	204	Corrosion from inorganic salts - after 24 h - withstands	Maintenance oil used to protect the inter- nal surfaces of internal combustion engi- nes, air compressors and engine pumps against corrosion.
ANTICOL ŁT 📌	881.0	-	116.0	-24	270	Corrosion from inorganic salts - after 24 h - withstands	Oil designed for long-term corrosion pro- tection. Not recommended for application on items later transported by sea.
ANTICOL TS-120	900.7	120.0*	211.8	-	220	-	Protective oil for saturating self-lubrica- ting sintered powder bushings and plain bearing races.

If you have any application concerns, please contact the Oil Service Team. Contact details on page 25 of the catalogue, e-mail: servis@orlenoil.pl * Kinematic viscosity at 50°C [mm²/s]



Quenching oils



Product name	Kinematic viscosity at 40°C [mm²/s]	Flash po- int (m.p.) min. [°C]	Flash point min. [°C]	Pour point [°C]	Cooling rate [C/s]	Ash resi- due [%]	Acid number [mgKOH/g]	Recom- mended oil bath tempera- tures	Product description
HARTEX 70	22.0	180	160	-15	96	-	0.1	40-80°C	Low-temperature quenching oil for the heat treatment of cast iron alloy steels and carburised steels, espe- cially in closed furnaces with a con- trolled atmosphere, for which a high surface cleanliness of the workpieces is required. The product also works successfully in through-baths.
HARTEX 70 S	24.0	195	180	-	96	0.20	-		Low-temperature quenching oil inten- ded for heat treatment of cast iron and steel elements, especially in closed
HARTEX 90S	23.8	206	185	-18	86	0.28	-		furnaces with a controlled atmosphe- re, which require high cleanliness of the surface of the workpieces.
HARTEX 120	45.0	220	200	-12	89	-	-	110-130°C	Medium-temperature quenching oil intended for heat treatment of cast iron and steel elements, especially in closed furnaces with a controlled at- mosphere, which require high cleanli- ness of the surface of the workpieces.
HARTEX 160	220.5	240	220	-9	80	-	-	160-180°C	High-temperature quenching oil in- tended for heat treatment of cast iron and steel elements, especially in clo- sed furnaces with a controlled atmos- phere, which require high cleanliness of the surface of the workpieces.
HARTEX WZ	31.5*	145	-	-		0.20	0.05	40-80°C	Low-temperature quenching oil inten- ded for heat treatment of cast iron and steel elements, especially in closed furnaces with a controlled atmosphe- re, which require high cleanliness of the surface of the workpieces.
ОН-70 М	22.1	160	140	5	-	0.20	-	40-80°C	Low-temperature quenching oil for the heat treatment of cast iron and steel components for which small geometrical deformations are permit- ted at the required cooling rate.
ОН-120 М	44.5	200	180	-5	-	0.60	-	110-130°C	Medium-temperature quenching oil for the heat treatment of cast iron and steel components for which small
OH-150 M	66.0	215	-	-6	_	-	-	130-150°C	geometrical deformations are permit- ted at the required cooling rate.
ОН-160 М	222.1	250	230	-3	-	0.90	-	160-180°C	High-temperature quenching oil for the heat treatment of cast iron and steel components for which small geometrical deformations are permit- ted at the required cooling rate.



Heat carriers

Product name	Density at 15°C [kg/ m³]	Kinematic viscosity at 40°C [mm²/s]	Kinematic viscosity at 100°C [mm²/s]	Viscosity index	Pour point [°C]	Flash point [°C]	Coking residue [% (m/m)]	Product description
ITERM SYNT 3P	1025.8*	15.0	2.8	-	** -34	194	-	Synthetic heat transfer medium used in closed-lo- op heating equipment where temperatures from -20 °C to 350 °C occur, incidentally up to 375 °C.
ITERM-4	837.9	4.1	1.5	-	-28	135	-	Heat transfer oil used in industrial cooling and heating systems, heaters and oil systems used for heating and closed-loop heating equipment.
ITERM 4 HT	851.1	19.6	4.1	107	-15	206	0.01	High-performance oil for heat exchange systems used in closed heating systems in the temperature range from -15°C to 285°C, industrial cooling and heating systems as well as heaters and oil heating systems.
ITERM 5	866.7	30.2	5.2	100	-15	226	0.01	High-tech heat carrier recommended for closed and open, oil-fired heating systems, closed in- dustrial systems, cooling and heating systems with operating temperatures up to 315°C - 320°C (temperature in the oil mass) and for solid-fuel furnaces where additional heat extraction sys- tems exist.
ITERM 6 MB	877.7	40.1	5.9	94	-18	236	0.24	Heat carrier recommended for use in closed he- ating systems in the temperature range of -10°C to 285°C, industrial cooling and heating sys- tems, heaters and oil systems for preheating and in solid fuel furnaces where additional heat collec- tion systems exist.
ITERM G 35 🄺	877.0	-	6.0	-	-18	230	0.4	The oil is used as a heat carrier and is recommen- ded for closed, pressure-free heating systems with oil circulation in the liquid phase at maximum volumetric temperatures of up to 280°C and a ma- ximum stratification temperature of up to 340°C.
ITERM G 100 🌟	881.8	102.0	11.4	-	-12	268	-	The oil is used as a heat carrier and is recom- mended for closed, pressure-free heating systems with oil circulation, at maximum volume- tric temperatures of up to 280°C and a maximum stratification temperature of up to 340°C.
ITERM 30 MF	906.9	640.1	38.3	98	-15	302	0.61	Oil for lubrication of machines and devices ope- rating at temperatures up to 200°C, e.g. conveyor chains in dryers.
ITERM 32	879.3	33.1	5.4	98	-15	215	-	Heating oil recommended for use in closed heating systems, industrial cooling and heating systems, heaters and heating oil systems.
ITERM 100	868.3	20.1	4.4	95	-18	216	0.03	Heating oil for use as a heat carrier in heating equipment and installations where the tempera- ture of the oil by weight does not exceed 200°C. It can be used in open systems as well as hermeti- cally sealed systems.

If you have any application concerns, please contact the Oil Service Team. Contact details on page 25 of the catalogue, e-mail: servis@orlenoil.pl

* Density at 20°C [kg/m³]

** Freezing point [°C]

Saw oils



Product name	Density at 15°C [kg/ m³]	Kinematic viscosity at 40°C [mm²/s]	Viscosity index	Pour point [°C]	Flash point (m.p.) [°C]	Product description
PILAROL EKO	0.84	63.1	200	-26	>230	Biodegradable oil for lubricating the cutting system (chain) and guides of power saws used in forestry or horticulture.
PILAROL VG 68	0.88	64.9	90	-30	>220	
*PILAROL VG 80 🔺	0.87	84.0	-	-27	>260	
PILAROL VG 140	0.89	140.0	91	-28		High-quality oil intended for lubrication of the cutting system (chain) and guides of mechanical saws used in forestry or horticulture.
PILAROL VG 150	0.89	157.4	97	-24	>220	
PILAROL VG 220	0.89	218.7	95	-21		

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*Product available on request

The ORLEN OIL portfolio has been expanded to include selected products from the LOTOS OIL range. These products are marked in the catalogue with the mark

Electrical insulating oils



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Product name	Density at 15°C [kg/m³]	Kinematic viscosity at 40°C [mm²/s]	Kinematic viscosity at -30°C [mm²/s]	Pour point [°C]	Flash point [°C]	Breakdown voltage [kV]	Antioxi- dant content	It meets the require- ments of:	Product description
ORLEN OIL TRAFO EN	0.88	10.3	1000	-60	142	66	none	PN-EN IEC 60296:2021 RIET edition 2022.	Non-inhibited electrical insulating oil for insulating and cooling various types of electrical equipment. The product is recommended for heavy-duty use in elec- trical equipment requiring oil, including the filling of power and distribution transformers, switches, rectifiers and switchgear.



Oils for pneumatic equipment

Product name	Density at 15°C [kg/m³]	Kinematic viscosity at 40°C [mm²/s]	Pour point [°C]	Flash point (m.p.) [°C]	Appearance at 20°C	Lubricating properties - weld load [kG]	Product description
PNEUMATIC VG-32	0.88	31.2	-18	>160	Clear, without any suspen-	-	Oil for lubrication of pneumatically driven equip- ment, e.g. upholstery staplers, drills, assembly spanners, etc., requiring lubrication of internal moving parts.
PNEUMATIC VG 100	0.89	101.0	-30	>220	ded matter	300	Oil designed for the lubrication of heavy-duty, percussive pneumatic tools such as drills, pneu- matic hammers, impact drills, etc.

If you have any application concerns, please contact the Oil Service Team. Contact details on page 25 of the catalogue, e-mail: servis@orlenoil.pl

Spring oils

Product name	Density at 15°C [kg/m³]	Kinematic viscosity at 40°C [mm²/s]	Kinematic viscosity at -30°C [mm²/s]	Viscosity index	Pour point [°C]	Flash point (m.p.)	Resistance to foaming: Sequence I Sequence II Sequence III	Product description
AMORTYZOL 15-WL 150	0.87	15.8	460	180	-49	164	70/0 90/0 50/0	Oil for the lubrication of telescopic shock absorbers designed to dampen vibrations in vehicle suspensions, truck loading ramps and vehicle hydraulics.



Product name	NLGI class	Type of thic- kener	Base oil	Base oil viscosity at 40°C [mm²/s]	Operating temperature range [°C]	Penetration after kne- ading at 25°C [1/10mm]	Dropping point [°C]	Colour
BENTONITE LUBRICANTS								
BENTOMOS 23	2	bentonite	mineral	230	-10÷200	260-300	> 300	dark grey, MoS₂ additive
BENTOR 2	2	bentonite	mineral	230	-10÷200	260-300	> 300	brown
AUREN 🛧	1	bentonite	mineral	550	-20÷200	310-340	> 300	gold, copper additive
COMPLEX CLAY GREASES								
ALITEN EP-1	1	complex clay	mineral	150	-20÷120	305-345	> 200	brown
ALITEN EP-2	2	complex clay	mineral	150	-20÷120	260-300	> 200	brown
COMPLEX LITHIUM GREASES								
GREASEN SYNTEX HT 2	2	complex lithium	synthetic	48	-50÷180	260-300	260	brown
TYTALIT AV-395 🖈	2	complex lithium	synthetic	50	-55÷180	265-295	>240	brown
TYTALIT GOLD 00	00	complex lithium	synthetic	50	-55÷180	400-430	>190	dark grey, MoS₂ additive
TYTALIT GOLD 2	2	complex lithium	synthetic	50	-55÷180	265-295	>250	dark grey, MoS₂ additive
GREASEN COMPLEX 2	2	complex lithium	mineral	100	-40÷160	260-300	260	brown
GREASEN EP-23	2	complex lithium	mineral	150	-30÷140	260-300	220	dark grey, MoS₂ additive
LITEN PREMIUM ŁT-4EP1	1	complex lithium	mineral	150	-30÷140	310-340	250	brown
LITEN PREMIUM ŁT-4EP2	2	complex lithium	mineral	150	-30÷140	265-295	250	brown
LITEN PREMIUM ŁT-4EP3	3	complex lithium	mineral	150	-30÷140	220-250	260	brown
G-421 EP-1 LUBRICANT	1	complex lithium	mineral	120	-35÷160	310-340	>230	brown
G-421 EP-2 LUBRICANT	2	complex lithium	mineral	120	-35÷160	265-295	>240	brown
G-421 EP-3 LUBRICANT	3	complex lithium	mineral	120	-35÷160	220-250	>240	brown
SMAROL NANO Lubricant for mowers	2	complex lithium	mineral	100	-30÷160	260-300	230	dark grey

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* customised penetration range

** products available on request

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Product description	Additional properties
Lubricant recommended for the lubrication of rolling and sliding bearings and other friction surfaces with a constant operating temperature above 100°C, mainly in the range of 120- 200°C, and with sufficiently frequent replacement or refilling up to approximately 220°C.	It is recommended for use under high, especially percussive loads and is not suitable lubrication of low-torque driven bearings and bearings with low radial clearance.
Lubricant recommended for the lubrication of rolling and sliding bearings and other friction surfaces with a constant operating temperature of 120°C to 200°C.	Moisture-resistant and practically non-flammable, this product is not suitable for th cation of low-torque driven bearings and bearings with low radial clearance.
Lubricant designed for low-power electrical contacts, bearings and guides and threaded connections exposed to high temperatures and corrosive environments. Operating tempe- rature from -20 to 200°C, from 200 to 600°C it acts as a dry release agent.	The lubricant has very good anticorrosion properties, reduces wear and friction, resi aggressive gaseous media, non-flammable
	Recommended for the lubrication of bearings in equipment with central lubrication of bearings in equipment with central lubrication of the second sec
Lubricants are designed for the lubrication of rolling bearings.	Recommended for the lubrication of bearings in devices with individual systems and lubrication systems, operating at high ambient temperatures and requiring greas pumped over short distances.
Lubricant for the lubrication of highly loaded and high-speed rolling and sliding bearings and other mechanisms.	It has antistatic properties and is compatible with copper alloy components, as well a large number of elastomers, making it possible to lubricate metal-plastic and m bber friction bonds. Allows lubrication of mechanisms exposed to shock loads, vi high dust, moisture and water washout.
Lubricant for high-speed bearings, precision mechanisms, non-service-sealed friction centres operating up to 1200C and other heavily loaded friction associations	The lubricant contains a package of additives to provide high oxidation resistance sion protection, resistance to water washout and the required lubricating proper strength of the lubricating film.
Lubricants designed for the lubrication of various friction nodes such as bearings, toothed gears, CV joints, threaded connection operating under high loads and extreme temperatures. The lubricants are designed for heavy construction and mining equipment.	The lubricant composition provides the highest lubricating, anticorrosive and a properties - enabling operation under extreme load conditions, a wide range of op temperatures and considerable dust.
Lubricant intended for the lubrication of highly loaded rolling and sliding bearings and other mechanisms, also using central lubrication systems.	Particularly recommended for the lubrication of automotive wheel hub bearings, motors, hot fans, as well as guides, joints and other automotive and industrial mech
Lubricant for the lubrication of highly stressed friction associations and angular gears of cutters. It is also recommended for use where there is frequent change of direction or a combination of low movement speeds and high loads, e.g. in CV joints.	The product is a lithium complex lubricant with molybdenum disulphide (3%). Resi moisture, steam and weak acids and alkalis. The grease is also resistant to vibratio pressures and shock loads.
Lubricants recommended for the lubrication of: rolling and plain bearings, also in central lubrication systems, slow-running, low- and medium-duty gears, joints and slideways of machines. It can be successfully used as a multifunctional automotive lubricant.	They are characterised by very high tribological performance and resistance to agei modern additive composition also provides a higher dropping point, better low-te ture properties and higher resistance to water washout, compared to conventional lubricants.
Multi-purpose, high-temperature lubricants for heavy-duty applications. Used in rolling and plain bearings, car hubs, guides and joints and other mechanisms lubricated by point or central lubrication systems. Due to their stability and robustness, they can be used for long-term and service-free lubrication under standard operating conditions.	They have excellent anti-corrosion, lubrication and oxidation resistance properties. wear and friction over a wide range of operating temperatures thanks to the per protective layer formed by the high adhesion of the lubricant to the substrate. They lubrication and corrosion protection against water ingress and guarantee high med stability. They also have good sealing properties, providing protection of the friction against dust, dirt and water.
Lubricant for the lubrication of angular gears of all types of lawnmowers and trimmers, combustion and electric. It can be successfully used at home, in the workshop and on the farm to lubricate and protect hinges, locks, threads and vehicle and machine components from corrosion over a wide temperature range.	The product contains a unique NANO formula comprising a mixture of solid nano lubricating bodies. The lubricant adheres perfectly to the lubricated surfaces, fo durable layer resistant to high loads, moisture, acids, alkalis and very high tempera



Product name	NLGI class	Type of thic- kener	Base oil	Base oil viscosity at 40°C [mm²/s]	Operating temperature range [°C]	Penetration after kne- ading at 25°C [1/10mm]	Dropping point [°C]	Colour
LITHIUM LUBRICANTS								
UNILIT ŁT4 EP-00	00	lithium	mineral	100	-30÷140	400-430	>180	green
UNILIT ŁT4 EP-1	1	lithium	mineral	100	-30÷140	310-340	>190	green
UNILIT ŁT4 EP-2	2	lithium	mineral	100	-30÷140	265-295	>195	green
UNILIT ŁT4 EP-3	3	lithium	mineral	100	-30÷140	220-250	>195	green
GREASEN ŁT-4 S-2	2	lithium	mineral	100	-30÷140	265-295	200	green
GREASEN ŁT-4 S-3	3	lithium	mineral	100	-30÷140	220-250	200	green
AUTOMOTIVE LUBRICANT ŁT4 S-2	2	lithium	mineral	100	-30÷120	265-295	>190	green
AUTOMOTIVE LUBRICANT ŁT4 S-3 🖈	3	lithium	mineral	100	-30÷130	220-250	>195	green
LITEN ŁT-4P2	2	lithium	mineral	100	-30÷140	260-300	202	brown
LITEN ŁT-4P3	3	lithium	mineral	100	-30÷140	220-260	205	brown
LITEN ŁT-41	1	lithium	mineral	100	-30÷130	310-340	200	brown
LITEN ŁT-42	2	lithium	mineral	100	-30÷130	265-295	202	brown
LITEN ŁT-43	3	lithium	mineral	100	-30÷130	220-250	205	green
LITHIUM LUBRICANT ŁT-41	1	lithium	mineral	100	-30÷130	310-340	>190	green
LITHIUM LUBRICANT ŁT-42	2	lithium	mineral	100	-30÷130	265-295	>190	green
LITEN EP-0	0	lithium	mineral	150	-20÷120	355-385	190	brown
LITEN EP-1	1	lithium	mineral	150	-20÷120	310-340	200	brown
LITEN EP-2	2	lithium	mineral	150	-20÷120	265-295	200	brown
LITEN EP-3	3	lithium	mineral	150	-20÷120	220-250	200	brown
LITHIUM LUBRICANT EP-0	0	lithium	mineral	100	-20÷130	355-385	>185	green
LITHIUM LUBRICANT EP-1	1	lithium	mineral	100	-20÷130	310-340	>190	green
LITHIUM LUBRICANT EP-2	2	lithium	mineral	100	-20÷130	265-295	>190	green
LITEN EPX-0	0	lithium	mineral	150	-20÷110	350-390	170	brown
LITEN EPX-00	00	lithium	mineral	150	-20÷110	395-435	160	brown
CENTRACAL	00/000	lithium	naphthenic	38	-40÷110	400-460	>180	brown
** LITEN LVG 2	2/3*	lithium	mineral	50	-30÷120	240-280	> 180	dark grey, graphite additive
** LITEN LVT 2-M	1/2*	lithium	mineral	200	-25÷120	270-310	> 180	dark grey, MoS₂ additive

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* customised penetration range

** products available on request

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Product description	Additional properties
Multi-purpose lubricant for stationary and centrally lubricated rolling and plain bearings, for the lubrication of chassis components, joints, medium-duty freewheeling gears and other components.	They have excellent anti-corrosion, lubrication and oxidation resistance properties. The are resistant to leaching with hot and cold water, provide lubrication and corrosion protec tion when water is available.
Lubricant for the lubrication of: automotive roller bearings, spider joints during assembly, linkages and guides of machines and other machine elements, plain bearings operating in the permissible temperature range.	-
Lubricants are used for the lubrication of rolling and plain bearings and are mainly intended for agricultural machinery as well as other machinery requiring bearing grease.	Provides high oxidation resistance, corrosion protection and increased lubrication film life
Lubricants designed for the lubrication of covered rolling bearings operating under highly demanding conditions with regard to properties such as: oxidation resistance, corrosion protection, water resistance and mechanical stability.	Multifunctional products, enhanced by additives with antioxidant, anticorrosive and lubri city-enhancing properties.
Lubricants intended for lubricating rolling and sliding bearings.	Refined with a package of additives with antioxidant, anti-rust and lubricating properties. The choice of lubricant depends on the method of grease supply to the bearings (e.g. centra or manual lubrication), the rotational speed and the operating temperature of the bearing.
Lubricants intended for lubrication of rolling and sliding bearings of all machines under nor- mal operating conditions.	They reduce wear and friction and have very good anti-corrosion properties. Can be used i workshops as well as for everyday domestic use.
	Designed for the lubrication of bearings in devices with central lubrication systems operating at low temperatures and requiring grease to be pumped over very long distances.
bricants recommended for the lubrication of rolling bearings operating under high loads,	Intended for the lubrication of bearings in devices with central lubrication systems oper rating at moderate ambient temperatures and requiring grease to be pumped over lon distances.
and also in less loaded bearings where impact loads occur.	Designed for the lubrication of bearings in devices with individual systems and central lubri cation systems operating at high ambient temperatures and requiring grease to be pumper over short distances.
	It is designed to lubricate the bearings of equipment with an individual system.
	EP-0 lithium lubricant is intended for the lubrication of bearings in devices with centra lubrication systems operating at low temperatures (-20°C to +10°C) and requiring greas to be pumped over very long distances.
Lubricants designed for the lubrication of rolling and plain bearings, other medium duty components including gears.	EP-1 lithium lubricant is intended for the lubrication of bearings in devices with centra lubrication systems operating at moderate ambient temperatures and requiring grease t be pumped over long distances.
	"EP-2 lithium lubricant is designed for the lubrication of bearings of equipment with individual system and central lubrication systems operating at high ambient temperatures an requiring the pumping of lubricant over short distances."
	Applicable in the medium temperature range specified and with medium gear sealing.
Lubricants recommended for the lubrication of closed spur and bevel gears.	It is used at lower temperatures of the specified temperature range and with good gea sealing.
Lubricant used to lubricate heavily loaded friction nodes. The consistency and specially selected type of base oil allow the lubricant to be used in automotive and industrial central lubrication systems under varying temperature conditions.	Lubricant that is easily pumpable at low temperatures, reduces wear and friction, has ver good corrosion and protective properties, provides lubrication when water is available, me ets MAN 283 specifications.
A lubricant designed primarily for the lubrication of plain bearings operating under high pressures and dynamic stresses. It is also suitable for the lubrication of gears, pins, bushings and other mechanisms, as well as slow-running roller bearings.	Not recommended for rolling bearings with higher speeds due to the solid lubricant content
A lubricant designed primarily for the lubrication of plain bearings operating under high pressures and dynamic stresses. It is also suitable for the lubrication of gears, pins, bushings and other mechanisms, as well as slow-running roller bearings.	Not recommended for rolling bearings with higher speeds due to the high solid lubricar content (5% MoS2).



Product name		NLGI class	Type of thic- kener	Base oil	Base oil viscosity at 40°C [mm²/s]	Operating temperature range [°C]	Penetra- tion after kneading at temp . 25°C [1/10mm]	Dropping point [°C]	Colour
GREASEN STP		1*	calcium	mineral	40	-20÷60	300-350	95	brown
STP LUBRICANT	*	1	calcium	mineral	100	-10÷60	300-350	>85	red
GREASEN GRAFIT		≥ 2*	calcium	mineral	100	-20÷60	>250	95	dark grey, graphite additive
GREASEN GRAFIT PLUS	*	2	calcium	mineral	100	-20÷60	260-300	>85	dark grey, graphite additive
GRAPHITE LUBRICANT 3	*	3	calcium	mineral	100	-20÷60	215-255	>90	dark grey, graphite additive
KALTON EP-1		1	calcium	mineral	42	-20÷60	305-345	95	brown
KALTON EP-2 LUBRICANT	*	2	calcium	mineral	190	-10÷60	265-295	>90	red
MACHINE LUBRICANT 2		2	calcium	mineral	100	-10÷60	260-300	95	brown
MACHINE LUBRICANT 3		3	calcium	mineral	100	-10÷60	215-255	95	brown
MACHINE LUBRICANT 2L	*	2	calcium	mineral	100	-10÷60	265-295	>90	red
MACHINE LUBRICANT 3L	*	3	calcium	mineral	100	-10÷60	220-250	>90	red
CSW-1		1	calcium	mineral	130	0÷60	290-325	93	brown
CSW-2		2	calcium	mineral	130	0÷60	250-285	95	brown
CSW-1L	*	1	calcium	mineral	100	-10÷60	310-340	>85	red
CSW-2L	*	2	calcium	mineral	100	-10÷60	265-295	>85	red
L LUBRICANT FOR BRAKE MECHANISMS (PRG-L)		0/1*	calcium	mineral	150	0÷60	280-380	120	brown
Z LUBRICANT FOR BRAKE MECHANISMS (PRG-Z)		00*	calcium	mineral	150	-20÷60	>380	120	brown
ZL LUBRICANT FOR BRAKE MECHANISMS	*	-	calcium	mineral	100	-10÷60	380-450	>70	brown
PWR LUBRICANT	*	-	calcium	mineral	100	-	-	-	grey, zinc dus additive

If you have any application concerns, please contact the Oil Service Team. Contact details on page 25 of the catalogue, e-mail: servis@orlenoil.pl

MoS₂ - Molybdenum disulphide

* customised penetration range

** products available on request

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Product description	Additional properties
It is designed exclusively for the periodic lubrication of car chassis, pins, joints, guides. Not suitable for lubrication of rolling bearings and water pump.	The soft consistency of the grease allows for easy use of pneumatic lubrication de is quite resistant to cold water.
Lubricant used for the periodic lubrication of vehicle chassis, pins, joints, guides and other points. Not suitable for lubricating rolling bearings.	The lubricant ensures proper lubrication and protection when water is available.
Lubricant for lubrication of: car springs, open gears, worm gears, screw threads exposed to corrosive action, chains and other heavily loaded friction nodes. It can be used as a typical assembly lubricant.	The product is resistant to cold water. It is not suitable for the lubrication of any auto components other than springs. Cannot be used in rolling bearings and other pr mechanisms.
Lubricants intended for lubricating spring leaves, screw threads, chains, open gears, worm gears and other heavily loaded friction nodes. Can be used as assembly lubricant. They are not suitable for lubricating rolling bearings and precision mechanisms.	Reduce wear and friction, protect against corrosion, for use in workshops as well a day domestic use. Particularly recommended where there is high dust, contact wit high pressures and transverse clearances.
Lubricant for the lubrication of heavily loaded rolling bearings, particularly under impact load, also when water is present, e.g. metal rolling mills, presses, heavy construction machinery, etc.	Recommended for central lubrication systems.
Lubricant for the lubrication of rolling bearings, heavily loaded components, especially un- der impact load, e.g. in metal rolling mills, as well as for the lubrication of other heavily loaded bearings, e.g. in presses, crushers, heavy construction machinery. Lubricant ensu- res proper lubrication when water is present.	Lubricant for use in manual bearing lubrication or in lubricators located close to the node.
Lubricants recommended for the lubrication of plain bearings and other friction surfaces.	Machine lubricant 2 is used for lubrication when fed through long, small-diameter l
The products are not suitable for lubricating rolling bearings.	Machine lubricant 3 is used for lubrication when a higher sealing capacity of the b is required and when the lubricant is fed through larger diameter pipes and over distances.
	Machine Lubricant 2 is mainly used in central lubrication systems when supplying lu through long lubrication lines with small diameters and low ambient temperatures.
Lubricants intended for lubricating sliding bearings and other friction surfaces.	Machine Lubricant 3 is used in central lubrication systems when lubricant is supplie ugh short grease lines with larger diameters when good sealing properties are requ
Recommended for the lubrication of rolling bearings in rolling cages and auxiliary equip-	CSW-1 is recommended when supplying lubricant through long, small-diameter lin low ambient temperatures.
ment with a central lubrication system at operating temperatures not exceeding 60°C, as well as in other equipment operating under high and shock loads.	CSW-2 is recommended when the lubricant lines are shorter and larger in diame when the sealing properties of the lubricant are required.
Lubricants for the lubrication of rolling cage bearings and sliding bearings in auxiliary	CSW-1 lubricant is mainly used in central lubrication systems when grease is supp long, small diameter lubrication lines at low ambient temperatures.
equipment. Used for the lubrication of heavily loaded components operating under shock loads.	CSW-2 lubricant is used in central lubrication systems when the lubricant is supplie ugh short lubrication lines of larger diameter and good sealing properties are requi
	Product for use in the summer period.
Seasonal lubricants for the lubrication of railway shunting equipment of brake mechanisms.	Product for use in the winter period.
Lubricant used to lubricate various types of brake mechanisms.	Grease for use in winter, ensures proper lubrication and protection in the presence of
The lubricant is used to seal and prevent seizure of threaded connections mainly for scru- bber pipes. Specially designed for wet and saline water environments, especially in the mi- ning industry.	The lubricant preserves components operating in brine and water environments, p threaded connections from seizing, in operation the lubricant exhibits very good adhesion characteristics, protects against rust and corrosion, is resistant to water, p good resistance to oxidation.



Product name		NLGI class	Type of thic- kener	Base oil	Base oil viscosity at 40°C [mm²/s]	Operating temperature range [°C]	Penetration after kne- ading at 25°C [1/10mm]	Dropping point [°C]	Colour
GREASEN N-EP 00/000		00/000*	lithium- calcium	mineral	35	-30÷90	400-460	165	brown
GREASEN S-EP 00/000		00/000*	lithium- calcium	synthetic	19	-45÷90	400-460	165	brown
LITEN LC EP-1		1	lithium- calcium	mineral	150	-35÷160	310-340	220	brown
LITEN LC EP-2		2*	lithium- calcium	mineral	150	-30÷160	270-295	245	brown
LITOCAL R 00/000	*	00/000	lithium- calcium	vegetable oil	35	-25÷100	400-475	>110	brown
LITOCAL R 2/1	*	2/1	lithium- calcium	vegetable oil	35	-25÷100	280-320	>140	brown
SULPHONATE LUBRICANTS									
HUTPLEX HV		1/2*	calcium sulphonate	mineral	420	-30÷180	285-315	> 300	brown
HUTPLEX WR-2		2	calcium sulfonate	mineral	180	-25÷180	265-295	> 300	brown
SULFOCAL 102	*	2	calcium sulfonate	mineral	100	-30÷180	265-295	>300	brown
SULFOCAL 301	*	1	calcium sulfonate	mineral	300	-30÷180	310-340	>300	brown
SULFOCAL 302	*	2	calcium sulfonate	mineral	300	-30÷180	265-295	>300	brown
SULFOCAL 801	*	1	calcium sulfonate	mineral	800	-30÷180	310-340	>300	brown
SULFOCAL 802	*	2	calcium sulfonate	mineral	800	-30÷180	265-295	>300	brown
SULFOCAL GOLD 350	*	00	calcium sulfonate	mineral	230	-30÷180	400-430	>280	dark grey, MoS₂ additive
SPECIALITY LUBRICANTS									
SMAROL PTFE		lubri- cant in the form of spray	PTFE	-	-	-30÷250	-	-	white
LR STEEL ROPE LUBRICANT		4	special	mineral	420	-	-	> 55	brown
** ORLEN OIL KRONER L		-	paraffin	mineral	-	-	-	> 48	dark brown to dark green
HYDROCARBON LUBRICANTS									
KZ LUBRICANT	*	semi- -fluid lubri- cant	carbon- hydrogen, asphalt and te- trachloroethy- lene additives	mineral	100	-20÷40	-	-	black
KOLINSTAL	*	5	hydrocarbon, asphalt additive	mineral	100	up to 40	100-170	>60	black
CORROSION PROTECTION LUBRICANT	*	-	carbon- hydrogen	mineral	100	up to 50	-	>60	brown

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* customised penetration range

** products available on request

EP - Extreme Pressure **AW -** Antiwear





The product is approved under MAN 283 Li-P 00/000.
Synthetic oil-based product.
Intended for the lubrication of bearings in devices with central lubrication system rating at moderate ambient temperatures and requiring grease to be pumped ov distances.
Designed for the lubrication of bearings in devices with individual systems and centr cation systems operating at high ambient temperatures and requiring grease to be p over short distances.
High oxidation resistance, corrosion protection and increased lubricant film strengt
The lubricant is ideal in coal and copper mines for lubricating bearings, pin conn- and other mechanisms of machinery and equipment operating in the specified temp range. The product also proves its worth in tough metallurgical applications, for th cation of stand roller bearings of rolling mill cages.
Thanks to its extraordinary thermal stability, the lubricant regains its original ture after returning to ambient temperature. Perfect for lubricating melements and devices in coal and copper mining, cement plants, steel industry, heavily and in all friction nodes exposed to extreme pressure and water.
The unique structure of the thickener provides extremely high resistance to tempe wear, seizure, corrosion and oxidation. Consistency class NLGI 2 allows the lubricat dispensed through individual lubrication points.
The unique structure of the thickener provides extremely high resistance to tempo wear, seizure, corrosion and oxidation. High drip temperatures allow operation over a wide temperature range while reducin
cation frequency.
In addition to individual applications, it can be used in industry to lubricate the fo components: plain and spherical bearings, chains - also fitted with O-Ring or X-Ring cogs, sprockets, levers, slideways, linear guide systems, spindles, hinges, wire rop joints, conveyors operating in ovens and dryers.
Not suitable for the lubrication of drum hoist shaft ropes or hoist ropes with Koep wheel.
It is applied to heat in liquid form.



Tab.1 Division of plastic lubricants into consistency classes according to NLGI								
Lubricant consistency group	Primary use							
000	very smooth	445-475						
00	liquid	400-430	Mechanical gearboxes					
0	semi-liquid	335-385						
1	very soft	310-340						
2	soft	265-295	Roller and plain bearings					
3	average	220-250						
4	semi-hard	175-205						
5	hard	130-160	Special mechanisms					
6	very hard	85-115						

Tab.2 Types of plastic lubricants and their characteristics						
Type of grease by thickener	Distinguishing features					
Lithium lubricants	 versatility of application good water resistance high durability 					
Calcium lubricants	 poor resistance to high operating temperatures poor grip very good water resistance 					
Complex clay lubricants	 very good temperature resistance very good water resistance good grip 					
Bentonite lubricants	 very good high temperature resistance no miscibility with other lubricants very good pumpability 					
Sulfonate lubricants	 excellent water resistance excellent load-bearing capacity very good temperature resistance 					
Complex lithium lubricants	 very good temperature resistance very high durability and mechanical stability 					





Product name	Density at 15°C [kg/m³]	Kinematic viscosity at 40°C [mm²/s]	Pour point [°C]	Flash point [°C]	Product description	
EXTRACTION PETROL III N.A.	732.2	0	0	5	A product with low aromatic compounds, trace of benzene and sulphur content. Obtained by distillation of hydrocarbon fractions. It is characteri- sed by a mild fragrance and excellent washing properties.	

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