MACHINE AND SYSTEM OILS

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MACHINE AND SYSTEM OILS

HYDRAULIC OILS

HIDROTEX SYN SERIES	Density (15°C, g/cm³)	Kinematic Viscosity (40°C, cSt)	Viscosity Index	Flash Point (°C)	Pour Point (°C)	TAN (mgKOH/g)
HIDROTEX SYN 32	0,852	32	166	230	-30	0,1
HIDROTEX SYN 46	0,855	46	164	235	-30	0,1
HIDROTEX SYN 68	0,858	68	152	240	-30	0,1

They are long-lasting, zinc-free hydraulic system oils that are especially recommended for new hydraulic systems with high performance expectations, and provide advantageous operation in oil consumption and waste costs.

HIDROTEX HVI ZF 46	Appearance	Kinematic Viscosity (40°C, cSt)	Viscosity Index	Flash Point (°C, min)
	Yellow, Clear	46	min. 155	220

It is a product produced with high wear resistance and heat resistance, zinc-free, high quality paraffinic base oils. It is suitable for special applications such as high power and working load electrical energy generation facilities, Gas Turbine Combined Cycle Power Plants, gas or steam turbines, hydraulic turbines. It is used successfully in all kinds of copper alloy hydraulic pumps. In addition, zinc may also be used in undesirable hydraulic systems such as plastic injection machines.

SPECIFICATIONS / APPROVALS

DIN 51524 Part III, Fives P-69, ISO 11158 HV, ASTM D 6158, SAE MS 1004, ISO 20763

HIDROTEX BSX HVI SERIES	Density (20°C, g/cm³)	Kinematic Viscosity (40°C, cSt)	Kinematic Viscosity (100°C, cSt)	Viscosity Index	Flash Point (°C)	Pour Point (°C)	TAN (mg KOH/g)
HIDROTEX BSX HVI 32	0,855	29,5	5,97	153	220	-30	0,5
HIDROTEX BSX HVI 46	0,860	47,91	8,5	155	230	-30	0,5
HIDROTEX BSX HVI 68	0,869	66,24	10,67	151	240	-30	0,5

New generation of high viscosity index HVI type hydraulic system oils formulated using Group II base oils to provide superior protection and performance in all industrial and mobile hydraulic systems. They are especially used to increase the service life and reduce the cost of waste in closed systems that work without loss for a long time. They contribute to minimizing pressure fluctuations, especially in applications where the temperature of hydraulic oils in the system exceeds 60°C or in systems operating at low temperatures.

SPECIFICATIONS / APPROVALS

Bosch Rexroth RDE 90245, Parker (Denison) HF-0, HF-1, HF-2 (HV), Eaton E-FDGN-TB002-E, EATON M-2950-S, ISO 20763, VICKERS I-286-S3, DIN 51524-3 (HV), ISO 11158 (HV), ASTM D 6158, SAE MS 1004, JCMAS P041 HK Hydraulic specification, ANSI AGMA 9005-EO2-RO, GM LS-2, AIST 126-127 (Us Steel).

HIDROTEX SUPER HVI SERIES	Density (20°C, g/cm³)	Kinematic Viscosity (40°C, cSt)	Kinematic Viscosity (100°C, cSt)	Viscosity Index	Flash Point (°C)	Pour Point (°C)	TAN (mg KOH/g)
HIDROTEX SUPER HVI 15	0,859	15,5	3,9	153	195	-30	0,3
HIDROTEX SUPER HVI 22	0,865	22,55	4,96	152	210	-30	0,3
HIDROTEX SUPER HVI 32	0,871	32,5	6,35	151	220	-30	0,3
HIDROTEX SUPER HVI 46	0,880	44,2	7,9	151	230	-30	0,3
HIDROTEX SUPER HVI 68	0,885	69,2	11,02	151	240	-30	0,3
HIDROTEX SUPER HVI 100	0,888	100	14,65	152	240	-30	0,3

Heavy duty HVI type hydraulic oils with high viscosity index and high resistance to corrosion and oxidation produced by blending the best quality refined base oils with the latest additive technology by strengthening them with additives that increase the viscosity index. They allow to minimize pressure fluctuations at different temperature levels thanks to their high viscosity indices.

SPECIFICATIONS / APPROVALS

DIN 51524 PART III, ISO 11158 HV, PARKER (DENİSON) HF-0, HF-1, HF-2, EATON (VICKERS) I-286-S, EATON (VICKERS) M-2950-S, CINCINNATI MACHINE P-68, P-69, P-70, JCMAS P041, CETOP RP 91 H.

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HIDROTEX BSX SERIES	Density (20°C, g/cm³)	Kinematic Viscosity (40°C, cSt)	Kinematic Viscosity (100°C, cSt)	Viscosity Index	Flash Point (°C)	Pour Point (°C)	TAN (mgKOH/g)
HIDROTEX BSX 32	0,855	32	5,48	107	220	-24	0,5
HIDROTEX BSX 46	0,861	46	6,62	98	230	-21	0,5
HIDROTEX BSX 68	0,864	68	8,65	98	240	-21	0,5

HLP type new generation hydraulic system oils formulated using Group II base oils to provide superior protection and performance in all industrial and mobile hydraulic systems. They are especially used to increase the service life and reduce the cost of waste in closed systems that work without loss for a long time.

SPECIFICATIONS / APPROVALS

Bosch Rexroth RDE 90245, Parker (Denison) HF-0, HF-1, HF-2 (HM), Eaton E-FDGN-TB002-E, EATON M-2950-S, ISO 20763, VICKERS I-286-S3, DIN 51524-2 (HM), ISO 11158 (HM, ASTM D 6158, SAE MS 1004, JCMAS P041 HK Hydraulic specification, ANSI AGMA 9005-EO2-RO, GM LS-2, AIST 126-127 (Us Steel).

HIDROTEX BS SERIES	Density (20°C, g/cm³)	Kinematic Viscosity (40°C, cSt)	Kinematic Viscosity (100°C, cSt)	Viscosity Index	Flash Point (°C)	Pour Point (°C)	TAN (mgKOH/g)
HIDROTEX BS 2	0,815	2	-	-	100	-45	0,5
HIDROTEX BS 5	0,83	5	-	-	120	-36	0,5
HIDROTEX BS 10	0,856	10	2,7	108	140	-30	0,5
HIDROTEX BS 15	0,861	16	3,6	107	160	-27	0,5
HIDROTEX BS 22	0,864	22	4,4	109	210	-27	0,5
HIDROTEX BS 32	0,87	32	5,48	107	220	-24	0,5
HIDROTEX BS 37	0,87	37	5,96	104	220	-21	0,5
HIDROTEX BS 46	0,875	46	6,62	98	230	-21	0,5
HIDROTEX BS 68	0,88	68	8,65	98	240	-21	0,5
HIDROTEX BS 100	0,885	100	11,2	97	250	-15	0,5
HIDROTEX BS 150	0,89	150	14,8	98	260	-15	0,5

High performance OEM approved hydraulic oils produced by blending the best quality refined base oils with special additives, high corrosion and oxidation resistance, cleaning and sediment dragging, minimizing wear. They are recommended for all industrial and mobile hydraulic systems. They are also used in special industrial applications such as construction machines, presses, mobile construction equipment, plastic injection and drawing, air compressors. They have been developed to meet the demanding needs of hydraulic systems operating with high pressure and high flow pumps under the hard conditions.

SPECIFICATIONS / APPROVALS

DIN 51524 Part II; ISO 11158 HM; PARKER (DENISON) HF-0, HF-1, HF-2; FIVES (Cincinnati) P-68, P-69, P-70; EATON (VICKERS) I-286-S, EATON (VICKERS) M-2950-S; AFNOR NF E 48-603; JCMAS P041; CETOP RP 91 H; BOSCH REXROTH 90220

HIDROTEX MIL S-20	Density (20°C, g/mL)	Kinematic Viscosity (40°C, mm²/s)	Kinematic Viscosity (-40°C, mm²/s)	Viscosity Index	Flash Point (°C)	Pour Point (°C)	Copper Corrosion Test (3 h, 100°C)
	0,82	20	1820	214	178	-60	1b

Hydraulic system oil that is developed for defense and aviation industry needs and does not lose performance at low temperatures. It has been approved to be used as the first filling oil in Pars III 8x8 vehicles of FNSS company.

SPECIFICATIONS / APPROVALS

Approved for first-fill lubricant for FNSS Pars III 8x8 vehicles.

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HIDROTEX ML-467	Density (20°C, g/mL)	Kinematic Viscosity (40°C, mm^2/s)	Kinematic Viscosity (-40°C, mm^2/s)	Viscosity Index	Flash Point (°C)	Pour Point (°C)	TAN (mgKOH/g)
	0,82	max 19.5	max 2600	125	218	<-54	0,12

Hydraulic system oil that is developed for defense and aviation industry needs and does not lose performance at low temperatures. It meets MIL-PRF-46170 specifications.

SPECIFICATIONS / APPROVALS

MIL-PRF-46170

HIDROTEX H-5606	Kinematic Viscosity (40°C, cSt)	Kinematic Viscosity (100°C, cSt)	Kinematic Viscosity (-40°C, cSt)	Kinematic Viscosity (-54°C, cSt)	Flash Point (°C)	Pour Point (°C)	Cleanliness Level
	13,2	5,05	459	1695	92	<-60	5

Hydraulic system oil that is developed for defense and aviation industry needs and does not lose performance at low temperatures. It meets MIL-PRF-5606 specifications.

HIDROTEX ALX SERIES	Appearance	Color	Kinematic Viscosity (40°C, cSt)	Aluminum Stain Test (300°C, 1h)	Flash Point (°C, min)
HIDROTEX ALX 16	Colorless, Clear	0-0	14-18	Pass	130
HIDROTEX ALX 32	Colorless, Clear	0-0	28,8-35,2	Pass	135
HIDROTEX ALX 46	Colorless, Clear	0-0	41,4-50,6	Pass	140
HIDROTEX ALX 68	Colorless, Clear	0-0	61,2-74,8	Pass	150

Hydraulic oils specially developed for the aluminium and copper industries, with special additives and high performance in hydraulic systems. They are used as hydraulic and lubricating oil in aluminum and copper hydraulic systems. They can also be used safely in the food industry.

TURBINE AND CIRCULATION OILS

TURBIN MORGOIL EP SERIES	Density (20°C, g/cm^3)	Kinematic Viscosity (40°C, cSt)	Kinematic Viscosity (100°C, cSt)	Viscosity Index	Flash Point (°C)	Pour Point (°C)
TURBIN MORGOIL EP-100	0,882	100	11,1	96	210	-24
TURBIN MORGOIL EP-150	0,9	150	14,8	98	245	-24
TURBIN MORGOIL EP-220	0,91	220	18,9	96	250	-18
TURBIN MORGOIL EP-320	0,915	320	24,1	96	250	-15
TURBIN MORGOIL EP-460	0,915	460	30,6	95	255	-12

They are designed to meet the critical requirements of the Morgan Construction Company's high speed No-Twist Rod Mills, as well as the circulation oil requirements of Danielli rod mills. They are formulated from high quality base stocks and a proprietary additive system to provide excellent wettability and corrosion protection. They possess excellent demulsibility that permits water and other contaminants to separate readily from the oil. These oils are intended primarily for the lubrication of plain bearings, roller bearings, parallel shaft and bevel gearing. They are suitable as multipurpose lubricants in systems not subject to shock loading and which do not require extreme pressure performance. No-Twist Rod rolls are suitable for use in all applications including spur, bevel, helical, herringbone gear units, circulation systems, hydraulic systems where high viscosity oils are required, and pumps, valves and auxiliary equipment where water mixing is possible.

SPECIFICATIONS / APPROVALS

Morgan Construction Company's No-Twist Rod Mill Lubricants Specification.

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TURBINE AND CIRCULATION OILS

TURBINOIL SC-32	Appearance	Kinematic Viscosity (40°C, cSt)	Kinematic Viscosity (100°C, cSt)	Viscosity Index (min)	Pour Point (°C, max)	Flash Point (°C, min)
	Clear	32	5,7	100	-27	215

High-performance turbine oil which is prepared by blending paraffinic base oils with special additives, designed for applications that require a long service life and include steam and water turbine groups. They are used in gas, steam and hydraulic turbines and other continuous circulation lubrication systems which consist pumps, valves and auxiliary equipments. They are recommended to use in parallel shaft gear and bearings, besides plain bearings and bearings for uninterrupted service.

SPECIFICATIONS / APPROVALS

Siemens TLV 9013 04 (non-EP), Siemens TLV 9013 05 (non-EP); ALSTOM HTGD 90 117 V0001 (non-EP); GEK 27070, 28143B, 32568G ve 46506E; DIN 51515 Part I&II

TURBINOIL SERIES	Density (20°C, g/cm³)	Kinematic Viscosity (40°C, cSt)	Kinematic Viscosity (100°C, cSt)	Viscosity Index	Flash Point (°C)	Pour Point (°C)
TURBINOIL 22	0,86	22	4,3	98	200	-30
TURBINOIL 32	0,88	32	5,47	98	204	-27
TURBINOIL 46	0,888	46	6,62	98	230	-24
TURBINOIL 68	0,89	68	8,65	98	240	-21
TURBINOIL 100	0,895	100	11,2	97	250	-18
TURBINOIL 150	0,9	150	14,8	98	250	-15
TURBINOIL 220	0,91	220	18,9	96	260	-12
TURBINOIL 320	0,915	320	24,1	96	260	-9
TURBINOIL 460	0,915	460	30,6	95	265	-6

High-performance oils which is prepared by blending paraffinic base oils with special additives, designed for applications that require a long service life and include steam and water turbine groups. They have outstanding chemical and thermal stability, fast and complete separation from water, and high resistance to emulsion formation. They are used in gas, steam and hydraulic turbines and other continuous circulation lubrication systems which consist pumps, valves and auxiliary equipments. They are recommended to use in parallel shaft gear and bearings, besides plain bearings and bearings for uninterrupted service. They are also used with success in medium-duty hydraulic pumps, compressors operating with air and inert gases at outlet temperatures not exceeding 150°C, and vacuum pumps.

SPECIFICATIONS / APPROVALS

DIN 51 515 (R&O), BS 489, MIL-L-17672

SLIDEWAY OILS

WAYLUB SERIES	Kinematic Viscosity (40°C, cSt)	Kinematic Viscosity (100°C, cSt)	Viscosity Index	Flash Point (°C)	Pour Point (°C, max)
WAYLUB 1	32	5,37	100	218	-21
WAYLUB 2	68	8,68	99	236	-18
WAYLUB 3	100	11,2	97	244	-12
WAYLUB 4	150	14,75	97	265	-9
WAYLUB 5	220	18,7	95	272	-9

They are slideway lubricants which provide excellent lubrication and prevent stick-slip motion and noise in heavily loaded and vertical slideways. They are formulated by blending high quality mineral base oil with exclusive additive technology. They are used with success in lubricating the horizontal and vertical slides of all types of machine tools. They can also be used in place of machine tools with a single lubrication system for hydraulic and slideway lubrication or hydraulic oil if recommended in applications where mixing of slideway lubricant and hydraulic oil can reduce oil performance.

SPECIFICATIONS / APPROVALS

CINCINATTI MILACRON P-47, P-53, P-50; AFNOR F E-60-200

MACHINE AND SYSTEM OILS

INDUSTRIAL GEAR OILS

RECOMPOUND PG SERIES	Kinematic Viscosity (40°C, cSt)	Viscosity Index	Flash Point (°C)	Pour Point (°C)
RECOMPOUND PG-100	100	221	255	-33
RECOMPOUND PG-150	150	223	260	-33
RECOMPOUND PG 220	220	224	265	-33
RECOMPOUND PG 320	320	256	265	-33
RECOMPOUND PG-460	460	256	270	-33
RECOMPOUND PG-680	680	272	275	-33
RECOMPOUND PG 1000	1000	293	275	-33

They are high performance synthetic gear lubricants containing Polyglycol-based synthetic base oils, corrosion inhibitors, antioxidant, EP and anti-wear additives. Recommended gear oils, especially for worm gears and lubrication under difficult conditions. They are used in worm gear systems operating under heavy conditions, Steel/Steel gear systems, Steel/Bronze gear systems, bearings and chains lubricated with the circulation system and exposed to high temperatures.

RECOMPOUND SYN SERIES	Kinematic Viscosity (40°C, cSt)	Kinematic Viscosity (100°C, cSt)	Viscosity Index	Flash Point (°C)	Pour Point (°C)
RECOMPOUND SYN-68	68	11,24	157	228	-54
RECOMPOUND SYN-100	100	15,16	157	230	-48
RECOMPOUND SYN-150	150	21,22	160	232	-45
RECOMPOUND SYN-220	220	27,78	161	238	-40
RECOMPOUND SYN-320	320	36,40	162	242	-40
RECOMPOUND SYN-460	460	47,59	163	246	-36
RECOMPOUND SYN-680	680	63,02	165	256	-33

They are formulated using wax-free synthetic based polyalphaolefin (PAO) oils and superior additive technology with unique oxidation and thermal properties and excellent low temperature viscosity. They perform superiorly under extremely low and high operating temperatures. They are used to lubricate gears and bearings from very low speeds to very high load/high temperatures. They are especially recommended for heavy-duty applications in the mining, chemical industry, metal and paper sectors, in gear drive systems, conveyors, mixers, dryers, drawing machines, fans, presses, pulp prepares, pumps, sieves and other heavy-duty applications, and in gear systems specific to the maritime industry.

SPECIFICATIONS / APPROVALS

AGMA 9005-E04, AGMA 250.04, AGMA 9005-D94; US STEEL 224; DAVID BROWN S.53; DIN 51517 Part 3; FLENDER

MACHINE AND SYSTEM OILS

INDUSTRIAL GEAR OILS

RECOMPOUND HD SERIES	Kinematic Viscosity (40°C, cSt)	Viscosity Index (min)	Flash Point (°C, min)
RECOMPOUND HD 100	90-110	90	240
RECOMPOUND HD 150	135-165	90	245
RECOMPOUND HD 220	198-242	90	250
RECOMPOUND HD 320	288-352	90	250
RECOMPOUND HD 460	414-506	90	255
RECOMPOUND HD 680	612-748	90	280

They are closed system gear oils with superior features that work under heavy conditions, which have EP, antiwear, antioxidant and antifoam additives. They are formulated to meet the needs of ever-evolving gear systems. It provides maximum wear and corrosion protection thanks to its excellent formulation and is compatible with sealants commonly used in gearboxes. They are particularly suitable for gear sets operating under heavy or impact loads. They have a wide range of applications, especially industrial straight, helical and bevel gears, which operate in environments with oil temperatures up to 100°C. They are also used in maritime applications such as deck machinery, propeller gearboxes and centrifuges including rudder carriers as well as industrial gears in conveyors, extruders, dryers, fans, mixers, presses, cranes, elevators, paper pulp machines, pumps, crushers and other heavy duty applications. They can also be used to lubricate overloaded and low-speed, sliding and roller bearings other than gear lubrication.

RECOMPOUND FL SERIES	Kinematic Viscosity (40°C, cSt)	Kinematic Viscosity (100°C, cSt)	Viscosity Index	Flash Point (°C)	Pour Point (°C)
RECOMPOUND FL 68	68	8,65	95	230	-30
RECOMPOUND FL 100	100	11,2	92	240	-24
RECOMPOUND FL 150	150	14,8	92	245	-24
RECOMPOUND FL 220	220	18,9	90	250	-18
RECOMPOUND FL 320	320	24,1	90	250	-12
RECOMPOUND FL 460	460	30,6	95	260	-9
RECOMPOUND FL 680	680	38,0	92	270	-9

They are closed system gear oils designed to provide optimum equipment protection and oil life even under the most difficult conditions, and developed using high quality mineral base oils and high-tech special additives. They are especially recommended for gear systems where micropitting wear are observed. Typical applications are cement and iron-steel industry with high and impact loads, rolling mills, calenders, cranes, conveyors, wind turbines, plastic drawing machines gear boxes and gear boxes used in paper, petroleum, textile, forest industry.

SPECIFICATION / APPROVALS

AGMA 9005-E04, AGMA 250.04 , AGMA 9005-D94; US STEEL 224; DAVID BROWN S.53; DIN 51517 Part 3; FLENDER

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INDUSTRIAL GEAR OILS

RECOMPOUND SERIES	Kinematic Viscosity (40°C, cSt)	Kinematic Viscosity (100°C, cSt)	Viscosity Index	Flash Point (°C)	Pour Point (°C)
RECOMPOUND 68	68	8,65	98	240	-24
RECOMPOUND 100	100	11,2	97	240	-24
RECOMPOUND 150	150	14,8	98	245	-21
RECOMPOUND 220	220	18,9	96	250	-18
RECOMPOUND 320	320	24,1	96	250	-15
RECOMPOUND 460	460	30,6	95	255	-12
RECOMPOUND 680	680	39,2	92	280	-9
RECOMPOUND 1000	1000	47,5	90	285	-9
RECOMPOUND 1500	1500	61,5	91	288	-6

They are closed system gear oils with superior features that work under heavy conditions, which have EP, antiwear, antioxidant and antifoam additives. They are formulated to meet the needs of ever-evolving gear systems. It provides maximum wear and corrosion protection thanks to its excellent formulation and is compatible with sealants commonly used in gearboxes. They are particularly suitable for gear sets operating under heavy or impact loads. They have a wide range of applications, especially industrial straight, helical and bevel gears, which operate in environments with oil temperatures up to 100°C. They are also used in maritime applications such as deck machinery, propeller gearboxes and centrifuges including rudder carriers as well as industrial gears in conveyors, extruders, dryers, fans, mixers, presses, cranes, elevators, paper pulp machines, pumps, crushers and other heavy duty applications. They can also be used to lubricate overloaded and low-speed, sliding and roller bearings other than gear lubrication.

SPECIFICATION / APPROVALS

AGMA 9005-E04, AGMA 250.04, AGMA 9005-D94; US STEEL 224; DAVID BROWN S.53; DIN 51517 Part 3

MACHINE AND SYSTEM OILS

TEXTILE OILS

OLYTEX ORB SERIES	Appearance	Kinematic Viscosity (40°C, cSt)	Flash Point (°C, min.)	Pour Point (°C)
OLYTEX ORB 22	White, Clear	22	200	-18
OLYTEX ORB 32	White, Clear	32	210	-15
OLYTEX ORB 46	White, Clear	46	240	-15

They are colorless nonstaining special knitting oils that are obtained by blending special refined white oils with special additives, have antistatic properties, are used in the lubrication of needles and yarns in the textile industry, and can be washed with water. They are used in the textile industry, especially in the needle and platinum lubrication of circular knitting machines, to prevent static electricity on the yarn and to provide lubrication.

OLYTEX ORS SERIES	Appearance	Kinematic Viscosity (40°C, cSt)	Flash Point (°C)
OLYTEX ORS 22	Light Yellow, Clear	19,8-24,2	192
OLYTEX ORS 32	Light Yellow, Clear	28,8-35,2	215
OLYTEX ORS 46	Light Yellow, Clear	41,4-50,6	225
OLYTEX ORS 68	Yellow, Clear	61,2-74,8	230

They are nonstaining knitting oils that are obtained by blending special refined oils with special additives, have antistatic properties, are used in the lubrication of needles and threads in the textile industry, and can be washed with water. They are used in the textile industry, especially in the needle and platinum lubrication of circular knitting machines, to prevent static electricity on the yarn and to provide lubrication.

OLYTEX HRX	Appearance	Kinematic Viscosity (40°C, cSt)	Flash Point (°C, min.)	pH (%5)
	Yellow, slightly hazy	20,0	200	6,5-7,5

Yarn weaving oil that is used in the synthetic sack industry to prevent the breakage of polypropylene yarns during weaving, increases the production performance, and is mixed with water. Developed to ensure a smooth transition to printing and lamination processes with stain-free feature. It is used by mixing the polypropylene yarns prepared for use in the production of big bags and sacks with water in the lubrication of the rollers of the weaving machines. It can also be used for lubricating wool and synthetic fibers in the cotton and wool fabric industry in the textile industry.

OLYTEX KN SERIES	Appearance	Kinematic Viscosity (40°C, cSt)	Flash Point (°C)
OLYTEX KN-16	Yellow, Clear	16	180
OLYTEX KN-22	Yellow, Clear	22	192
OLYTEX KN-32	Yellow, Clear	32	215

They are light yellow colored high-performance cone oils with excellent lubrication capability. They are suitable for use in the textile industry, especially in high speed texturing and transfer machines, due to their antistatic and lubricating properties in preventing static electricity on the yarn by dripping on the yarn and lubricating the needles and sensitive points of textile machines.

OLYTEX PPS 32	Appearance	Kinematic Viscosity (40°C, cSt)	Density (g/mL, 15°C)	pH (%5)
	Colorless, clear	30,0	0,850	8,0

It is a lubricant suitable for high-performance food that is used by mixing with water in the production of polypropylene-polyethylene-based Big-Bag and sack with excellent lubrication capability. It is used by mixing with water to prevent static electricity on easy weaving and yarn, especially in the knitting of food packages, polypropylene and polyethylene-based Big-Bag and column manufacturing. Apply by spraying between bag yarns and weaving needles.

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FIRE RESISTANT HYDRAULIC FLUIDS

POLYOL ES BASE HF SERIES	Appearance	Density (g/mL, 15°C)	Kinematic Viscosity (40°C, cSt)	Viscosity Index	Flash Point (°C)	Fire Point (°C)	Pour Point (°C)
POLYOL ES BASE HF-46	Yellow, Clear	0,900-0,940	41,4-50,6	190	min. 300	min.310	max.-25
POLYOL ES BASE HF-68	Yellow, Clear	0,910-0,940	61,2-74,8	190	min. 300	min.340	max.-25

They are polyol ester-based, highly fire resistant environmental-friendly hydraulic fluids which do not contain any mineral oil. They are fire resistant hydraulic fluids and can work under very difficult conditions. Mineral oils cannot be used in processes where casting, furnaces and liquid metal are present such as hydraulic die-casting and chilled casting machines, automatic injection molding machines, hydraulic forging presses, machines in the mining industry. Under such conditions, utilization of fire-resistant hydraulic fluids is necessary. In high pressure hydraulic systems, small fractures may cause the fluid splash and the spontaneous ignition temperature of mineral oils is about 350°C, which means that above this temperature threshold such mineral oils ignite without being exposed to a naked flame. The flame continues to spread through the source; burning mineral oil does not even go out when the actual source of ignition has been eliminated. These dangers are avoided by using a fire-resistant hydraulic fluid.

SUPERSAFE FLUID SERIES	Appearance	Pour Point (°C, max)	Kinematic Viscosity (40°C, cSt)	Density (15°C, g/mL)	pH	Ash (%, max)
SUPERSAFE FLUID 46	Yellow, Fluorescence	-45	38-42	1,060–1,080	9,0 – 10,0	0,40
SUPERSAFE FLUID 68	Yellow, Fluorescence	-45	61,2-74,8	1,060–1,080	9,0 – 10,0	0,40

SUPERSAFE FLUID SERIES are a fire-resistant hydraulic fluid that can be used in hydraulic systems where high temperatures exist. They are used in systems in which high fire risk is present such as hot molding hydraulic systems, automatic plastic injection machines and tools, hydraulic presses, hot piece hydraulic conveyors, hydraulic systems of quarries and steel industry.

HIDROTEX POLYOL HFSERIES	Appearance	Density (15°C, g/mL)	Kinematic Viscosity (40°C, cSt)	Viscosity Index	Flash Point (°C)	Fire Point (°C)	Pour Point (°C)
HIDROTEX POLYOL HF-46	Yellow, Clear	0,900-0,940	41,4-50,6	185	min. 280	350	max. -24
HIDROTEX POLYOL HF-68	Yellow, Clear	0,910-0,940	61,2-74,8	185	min. 280	350	max. -24

HIDROTEX POLYOL HF OILS are polyol ester-based, environmentally friendly HFDU type fire resistant hydraulic fluids which do not contain any mineral oil, have high fire resistance. HIDROTEX POLYOL HF OILS are approved by FM (Factory Mutual) as a fire resistant industrial fluid. They are used in environments with castings, furnaces and liquid metals and in hydraulic systems operating with high pressure-heat and pump speed, where mineral-based hydraulic oils cannot be used.

SHOCK ABSORBER OILS

SHOCKABSORBEROIL AW SERIES	Appearance	Density (20°C, g/cm^3)	Kinematic Viscosity (40°C, cSt)	Kinematic Viscosity (100°C, cSt)	Viscosity Index (min)	Kinematic Viscosity (-20°C, cSt)	Kinematic Viscosity (-40°C, cSt)	Flash Point (°C)	Pour Point (°C)
SHOCKABSORBEROIL AW-16	Red, Clear	0,83	14-18	4,69	220	320	1900	150	<-54
SHOCKABSORBEROIL AW-32	Red, Clear	0,835	30-36	8	220	800	5850	170	<-54

They are shock absorber oils which are formulated with the last technology base oils and highly refined naphthenic base oils and viscosity index improver additives. They can be used easily in all type machines that operate in pulsed (textile machinery, presses, work machinery, lifting machinery, automobiles...) and all shock absorbers exposed to low temperatures. They are suitable to use in telescopic shock absorbers which are widely used in passenger cars and light-duty commercial vehicles.

SHOCKABSORBEROIL AW 5/19	Appearance	Color	Density (g/mL, 20°C)	Kinematic Viscosity (40°C, cSt)	Kinematic Viscosity (100°C, cSt)	Viscosity Index	Open Cup Flash Point (°C)	Pour Point (°C)
	Clear	Red	0,878	15,1	4,0	175	160	-45

It is shock absorber oil which is formulated with highly refined naphthenic and paraffinic base oils, anti-wear and viscosity index improver additives. It is suitable to use in telescopic shock absorbers which are widely used in passenger cars and light-duty commercial vehicles.

MACHINE AND SYSTEM OILS

SHOCK ABSORBER OILS

SHOCKABSORBEROIL BW SERIES	Appearance	Density (20°C, g/cm³)	Kinematic Viscosity (40°C, cSt)	Kinematic Viscosity (100°C, cSt)	Viscosity Index (min)	Kinematic Viscosity (-20°C, cSt)	Kinematic Viscosity (-40°C, cSt)	Flash Point (°C)	Pour Point (°C)
SHOCKABSORBEROIL BW-11	Blue, clear	0,828	10-14	3,4	175	223	942	150	<-54
SHOCKABSORBEROIL BW-16	Red, clear	0,853	14-18	4,3	180	420	3600	160	<-50
SHOCKABSORBEROIL BW-32	Red, clear	0,884	30-36	6,6	180	1530	22000	170	<-50

They are shock absorber oils which are formulated with the last technology base oils and highly refined naphthenic base oils and viscosity index improver additives. They can be used in fifth door shock absorbers, lift gate shock absorbers and all shock absorbers exposed to low temperatures. They are suitable to use in telescopic shock absorbers which are widely used in passenger cars and light-duty commercial vehicles.

SHOCKABSORBEROIL CW SERIES	Appearance	Density (20°C, g/cm³)	Kinematic Viscosity (40°C, cSt)	Kinematic Viscosity (100°C, cSt)	Viscosity Index (min)	Kinematic Viscosity (-20°C, cSt)	Kinematic Viscosity (-40°C, cSt)	Flash Point (°C)	Pour Point (°C)
SHOCKABSORBEROIL CW-16	Red, Clear	0,847	14-18	3,92	150	410	6360	160	<-40
SHOCKABSORBEROIL CW-32	Red, Clear	0,878	30-36	6,44	150	2100	35000	180	<-40

They are shock absorber oils which are formulated with the last technology base oils and highly refined naphthenic base oils and viscosity index improver additives. They are produced for general usage. They are used in low friction shock absorbers and spring plantings. They are suitable to use in passenger cars and light-duty commercial vehicles.

MOULD RELEASE AGENTS

PEARLFLUID PX	Appearance	Density (15°C, g/mL)	Refractive Index (nD_{20})	Kinematic Viscosity (40°C, cSt)	Flash Point (°C)
	Yellow, Clear	0,798	1,4380	1,92	40

It is a special mold release oil produced with refined special base oil and additives and used in the construction and building sector. It forms a thin and homogeneous film layer between the material and the mold, allowing easy release of the material from the mold. It is used as pure, especially in the production of concrete molds, in order to clean and easily release the concrete from the metal molds, to prevent the material from sticking to the mold and to prevent the mold from being damaged.

PEARLFLUID LK	Appearance	Density (g/mL, 15°C)	Refractive Index (nD_{20})	Kinematic Viscosity (40°C, cSt)	Pour Point (°C)	Flash Point (°C)
	Yellow, Clear	0,860	1,4750	16,0	-12	200

It is a special mold release oil produced with refined special base oil and additives and used in the construction and building sector. It forms a thin and homogeneous film layer between the material and the mold, allowing easy release of the material from the mold. It is used as pure, especially in the production of concrete molds, in order to clean and easily release the concrete from the metal molds, to prevent the material from sticking to the mold and to prevent the mold from being damaged.

PEARLFLUID MB-35	Appearance	Density (20°C, g/mL)	Kinematic Viscosity (40°C, cSt)	Flash Point (°C)
	Yellow, Clear	0,850	8,5	156

Special, low-viscosity mold release oil used in the construction, building and casting industries, produced with refined special base oils and additives. It forms a thin and homogeneous film layer between the material and the mold, allowing easy release of the material from the mold. It is used as pure, especially in sand casting molding and brick production, for the purpose of releasing the material from metal molds cleanly and easily, not sticking the material to the mold, and not damaging the mold.

PEARLFLUID 32	Kinematic Viscosity (40°C, cSt)	Kinematic Viscosity (100°C, cSt)	Viscosity Index	Pour Point (°C)	Flash Point (°C)	Iodine Number	Saponification Number
	32	7,0	190	-12	310	112	184

It is a mold release oil produced with special synthetic oil and additives and used in the metal sector, especially in iron casting works. It forms a thin and homogeneous film layer between the material and the mold, allowing easy release of the material from the mold. It is a special product used as mold release oil in continuous casting plant in Iron-Steel factories, it is used as pure in order to prevent damage to the mold.

MACHINE AND SYSTEM OILS

COMPRESSOR OILS

SYNTEX COM SERIES	Density (20°C, g/cm³)	Kinematic Viscosity (40°C, cSt)	Viscosity Index	Flash Point (°C)	Pour Point (°C)
SYNTEX COM 46	0,882	46	157	236	-45
SYNTEX COM 68	0,888	68	163	240	-45
SYNTEX COM 100	0,895	100	168	245	-45

Compressor oils produced by blending full synthetic base oils and special additives. Thanks to special polyalphaolefin base oils, they provide long life, high performance and trouble-free operation even under the hardest conditions and high temperatures. They are top-quality products that perform excellently in all types of screw and vane-type air compressors. They have been developed for use in screw compressors operating in a variety of applications where hard climatic, environmental and high temperature conditions are present. Under normal operating conditions, these products have a service life of over 8000 hours.

KOMPRESOROIL SC SERIES	Density (20°C, g/cm³)	Kinematic Viscosity (40°C, cSt)	Kinematic Viscosity (100°C, cSt)	Viscosity Index	Flash Point (°C, min)	Pour Point (°C)	Air Release (min)
KOMPRESOROIL SC-32	0,84	32	5,89	127	248	-36	3
KOMPRESOROIL SC-46	0,844	46	7,61	133	254	-33	3
KOMPRESOROIL SC-68	0,845	68	10,15	140	260	-33	3
KOMPRESOROIL SC-100	0,846	100	13,97	146	266	-30	3

They are high-performance, long-lasting compressor oils prepared by blending synthetic hydrocarbon liquids and special additives, developed for screw and crawler compressors. They have excellent oxidation resistance and a tendency to form low soot and they easily separate from water. These oils are particularly suitable for situations where mineral-based products cannot meet the demands of severe operation applications subjected to high final compression temperatures or extension of oil change intervals. They are also used with success in oil injection cooling screw-type compressors, units operating under heavy-duty conditions, multi-stage units with excessive oil deterioration in mineral-based oils, compressor systems with critical gears and bearings, and compressors used in fixed and mobile applications.

KOMPRESOROIL SERIES	Density (20°C, g/cm³)	Kinematic Viscosity (40°C, cSt)	Kinematic Viscosity (100°C, cSt)	Viscosity Index	Flash Point (°C)	Pour Point (°C)	Air Release (min)
KOMPRESOROIL 46	0,882	46	6,62	98	236	-18	6
KOMPRESOROIL 68	0,888	68	8,65	98	240	-12	6

Compressor oils designed for compressors operating under medium and heavy conditions, formulated with high quality mineral base oils and high performance additive system. They have excellent oxidation resistance and a tendency to form low soot and they easily separate from water. They perform very well in lubricating compressor systems with gears and bearings, and thus have widespread use. They are recommended for single and multi-stage air compressors. They are used successfully in reciprocating air compressors crankcase and cylinders, rotary screw compressors, rotary vane compressors, axial and centrifugal compressors, compressor systems with critical gears and bearings, and compressors used in stationary and mobile applications.

SPECIFICATIONS/APPROVALS

DIN 51506 VD-L

CHAIN OILS

CHAINOIL RAM-250	Appearance	Density (g/mL, 20°C)	Kinematic Viscosity (40°C, cSt)	Flash Point (°C)
	Yellow, Clear	0,943	262,5	270

Long-lasting, high-temperature chain oil produced by blending synthetic oils and high performance additives for use in conveyor and chain lubrication. Since it is fluid when stored at room temperature, it can be easily pumped in the central lubrication system, does not carbonize when exposed to heat, and does not leave a residue on the surface.