

The background of the entire page is a close-up, high-angle shot of several interlocking golden gears. The gears are highly detailed, showing the teeth and the complex internal structures of the gear housing. The lighting is dramatic, highlighting the metallic texture and the sharp edges of the teeth against a dark background.

MILES LUBRICANTS LLC

Innovative Lubricant Engineering
Miles formulations are made from the finest quality of oils, all API approved.

To Our Valued Customers,

Back in 1937, a young man by the name of Jack Stern, started a new business selling lubricating oils, which in those years were delivered in wooden barrels in horse drawn wagons. At the very beginning Jack dedicated Miles Lubricants to excellence in every phase of business, quality products, competitive pricing and most important of all, "Customer Service."

Today, almost a century after our "Founding" Miles Lubricants is a major supplier of lubricating oils, a wide selection of greases plus an extensive selection of Industrial oils and Motor Oils. The quest goes on many years after our founding to achieve excellence in every aspect of our business including highly competitive prices in order to insure our customers' higher profits. Our modern technical facilities and long relations with the major suppliers allow us to give you the best service possible. Most important is that we have never lost our personal and hometown touch with you. We are always available to you to answer any technical questions that may occur within your day to day business and to service your needs in any way possible. I would like at this time to personally thank our many loyal customers and offer our grateful appreciation for your patronage and trust in Miles Lubricants over the past many years. We at Miles look forward to serving you for another century with that same personal touch.

Our Thanks to You Our Customers

Angela Stern
President

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PASSENGER CAR ENGINE OIL



MILESYN SB

SYNTHETIC BLEND GF-5/SN PASSENGER CAR ENGINE OILS

are specially formulated using synthetic and Group II base oils and high performance additive packages to provide superior performance in gasoline fueled and flex-fueled engines. These oils are formulated for excellent oxidation stability and low temperature properties to insure protection during cold starts. MILES PRIDE SYNTHETIC BLEND GF-5 engine oils exceed the requirements of ILSAC GF-5 and are "Resource Conserving" for improved fuel economy.

PROPERTIES

PRODUCT	Viscosity, cSt @ 40 °C	Viscosity, cSt @ 100 °C	Viscosity Index	Pour Point, °C	NOACK, Wt.(%)	Phosphorous, Wt. (%)	Zinc. Wt. (%)	Density	Viscosity, CCS cP @ -30°C	APPROVALS
MILESYN SB 5W20	47	8.5	150	-41	14.5	0.077	0.085	7.16	6200	API SN/GF-5
MILESYN SB 5W30	67	10.8	160	-41	14.5	0.077	0.085	7.17	6000	API SN/GF-5
MILESYN SB 10W30	68	10.5	145	-32	14.5	0.077	0.085	7.2	6000	API SN/GF-5
MILESYN SB 10W40	112	15.5	145	-35	14.5	0.077	0.085	7.25	6400	API SN/GF-5

MILESYN SXR

MILESYN SXR FULL SYNTHETIC GF-5/SN PASSENGER CAR ENGINE OILS are specially formulated using synthetic base oils and high performance additive packages to provide superior performance benefits to conventional engine oils. These oils are formulated for excellent oxidation stability, superior low temperature properties to insure protection during cold starts, lower volatility for reduced oil consumption and excellent resistance to viscosity breakdown. MILESYN FULL SYNTHETIC GF-5 engine oils meet the most demanding lubrication requirements of today's naturally aspirated, turbo-charged and super-charged gasoline fueled and flex-fueled engines. These oils exceed the requirements of ILSAC GF-5 and are "Resource Conserving" for improved fuel economy.

PROPERTIES

PRODUCT	Viscosity, cSt @ 40 °C	Viscosity, cSt @ 100 °C	Viscosity Index	NOACK, Wt.(%)	High Temp./High Shear	Phosphorous, Wt. (%)	Zinc. Wt. (%)	APPROVALS
MILESYN SXR 0W20	43.5	8.3	170	13	2.6	0.085	7.09	API SN/GF-5
MILESYN SXR 0W30	44	10.9	165	14.5	3.1	0.085	7.09	API SN/GF-5
MILESYN SXR 5W20	44	8.3	165	12.5	2.6	0.085	7.09	API SN/GF-5
MILESYN SXR 5W30	62	11	165	11	3	0.085	7.1	API SN/GF-5
MILESYN SXR 10W30	58	10	155	10	3.1	0.085	7.1	API SN/GF-5

HEAVY DUTY

15W40 PREMIUM CJ-4

MILES ALL SPEC 15W40 PREMIUM PLUS CJ-4 is a superior lubricant formulated to meet or exceed the warranty requirements of most manufacturers of diesel and gasoline engines. Field tests have shown our CJ-4 oils retain TBN levels for longer periods due to the advanced additive chemistry. Designed for the modern high performance, low emission diesel engines using ERG and Diesel particulate filters, this lubricant offers superior engine protection for heavy-duty diesel engines requiring the latest API CJ-4/SN specification.

GEO LA 15W40 - LAW ASH GAS ENGINE OIL - is a specially devised, high-quality oil for utilization in mobile gas engine oil (GEO) applications. Formulated with dispersant detergency technology and higher levels of antiwear additives than conventional low-ash GEO's, GEO LA 15W40 OIL is designed to meet the demanding wear protection requirements of gas-conversion engines. Formulated to be suitable for use in buses, transit fleets, trucks and other vehicles equipped with CNG or LPG engines, GEO LA 15W40 OIL GAS ENGINE OIL provides outstanding .oxidization, nitration, wear, and rust and corrosion protection

PROPERTIES															
PRODUCT	Viscosity, cSt @ 40 °C	Viscosity, cSt @ 100 °C	Viscosity Index	Viscosity, CCS cP @ - 20°C	Calcium, %wt.	Magnesium, Wt. (%)	Nitrogen, Wt. (%)	Phosphorous, Wt. (%)	Sulfur, Wt. (%)	Zinc, Wt. (%)	Sulfated Ash, wt%	Total Base Number	Specific Gravity	Density, lbs/gal @ 60°F	Flash Point (COC). °C (°F)
ALL SPEC 15W40 CJ-4	117.6	15.23	135	6752	0.2325	Nil	0.093	0.108	0.3765	0.12	0.938	8	0.8999	-	-
GEO LA 15W40	114	15.2	137	-	-	-	-	0.08	-	0.08	0.76	6	0.875	7.29	227(441)

HEAVY DUTY - SYNTHETIC

MILESYN SB 15W40 - is formulated with synthetic base stocks for superior anti-oxidation characteristics and enhanced high temperature stability to meet or exceed the warranty requirements of all manufacturers of diesel and gasoline engines. This oil is formulated to meet the Mack EO-0 Premium Plus '07 specification and API CJ-4/SN specification for use in EGR equipped heavy-duty diesel engines in high output service. MILESYN SYNTHETIC BLEND 15W40 meets the performance requirements of most diesel engine manufacturers such as Caterpillar, Cummins, Detroit Diesel, Ford, Mack, Navistar, and Volvo. It can be used with complete success in over-the-road diesel trucks, off-highway diesel equipment, farm tractors, and passenger cars and light trucks with diesel engines, turbo-charged or non turbo-charged and well as gasoline engines. Since the introduction of ultra low sulfur fuels, high TBN oil is no longer a crucial need. Field tests have shown our CJ-4 oils retain TBN levels for longer periods due to the advanced technology of the new additive chemistry.

MILESYN SXR 15W40 - is a synthetic 15W-40 motor oil for use in four-stroke diesel engines, both on and off road, and gasoline engines. It is designed to provide enhanced performance over conventional petroleum oils with improved oxidation, heat, and sludge resistance.

MILESYN SXR LA 15W40 - GEO - is a specially designed, superior quality, full synthetic lubricant for utilization in mobile gas engine oil (GEO) applications. Formulated with full synthetic base stocks, dispersant detergency technology, and higher levels of antiwear additives than conventional low-ash GEO's, MILESYN SXR LA 15W40 is designed to meet the demanding wear protection requirements of gas-conversion engines. Formulated to be suitable for use in buses, transit fleets, trucks and other vehicles equipped with CNG or LPG engines, MILESYN SXR LA 15W40 provides outstanding oxidation, nitration, wear, and rust and corrosion protection.

PROPERTIES																	
PRODUCT	Viscosity, cSt @ 100 °C	Viscosity, cSt @ 40 °C	Viscosity Index	Viscosity CCS Cp	Density, lb/gal	Color	Flash Point, °C (COC)	Fire Point, °C (COC)	Pour Point, °C	TBN	Four Ball Wear Test 40 kg, 1.200 rpm, 75°C, 1 hour	Nitrogen, Wt. (%)	Phosphorous, Wt. (%)	Sulfur, Wt. (%)	Zinc, Wt. (%)	Sulfated Ash, wt%	Specific Gravity @ 60°F
MILESYN SB 15W40	15.35	119.2	135	6752	7.141	L4.5	232	246	-37	9.5	0.4	0.093	0.108	0.3765	0.12	0.985	-
MILESYN SXR 15W40	14.82	96.45	157	4529(-20)	7.141	L4.5	232	246	-37	11.28	0.4	-	-	-	-	-	-
MILESYN SXR LA 15W40 - GEO	14.7	98	158	3300	7.29	7.5	227	-	-40	6	-	-	0.08	-	0.09	0.76	0.857

TRANSMISSION FLUID

ATF / DEX III - is a premium quality, multi-purpose automatic transmission fluid specially formulated for new generation, electronically controlled transmissions. This fluid may also be used in previous transmissions built by General Motors, Chrysler, Ford (except where type "F" is required) and most foreign manufacturers. meets and exceeds the requirements of DEXRON IIE, DEXRON II, DEXRON ,DEXRON /MERCON and TYPE A suffix transmission fluids. This fluid is also formulated to exceed the performance requirements of Allison Transmission Division C-4, and various hydraulic manufactures' antiwear hydraulic fluid specifications.

MILESYN SB ATF - is a superior quality synthetic blend suitable for use in most automatic transmission applications. It meets or exceeds many OEM passenger car, commercial diesel, and off-road equipment specifications and provides exceptional protection for all driving conditions. Formulated with the latest additive technology, Advantage Multi-Vehicle Synthetic Blend ATF protects against wear, allows for smoother shifting with less shudder, and outperforms most other conventional and synthetic ATF fluids.

MILESYN SXR ATF - is a specifically designed, fully synthetic fluid for use the latest generation of high tech transmissions. Formulated for use in a wide variety of applications, MILESYN SXR ATF is suitable for use against GM's latest Dexron VI specification and is completely backward compatible for use in older GM vehicles that specify Dexron III H, Dexron III G, Dexron I ID, Dexron II or Dexron fluids. This fluid has shown outstanding performance in friction durability, shear and oxidation stability and provides longer service life with superior foam resistance, minimization of deposits and consistent shift performance. Not recommended for Type F, CVT or DCT transmissions; please consult the application chart for use suitability.

PROPERTIES													
PRODUCT	Density, @ 15°C	Flash Point, COC °C	Viscosity, cSt @ 40 °C	Viscosity, cSt@ 100°C	Viscosity Index	Viscosity, cP @ -40 °C	Pour Point, °C	Phosphorus, %wt.	Sulfur, Wt. (%)	Specific Gravity	Brookfield @ -40 °C	TAN	Gravity, API @ 60 °F
ATF	-	177	36.5 cSt	7.8 cSt	190	-	-40				17.500 cp	1.2	31.4
MILESYN SB ATF	-	-	34.81	7.5	175	-	-45	0.03	0.11	0.855	-	-	-
MILESYN SXR ATF	0.844	191	29.8	5.98	152	11500	-50	0.0194	-	-	-	-	-

GEAR OIL

SERIES AUTOMOTIVE GEAR OILS

MILES AUTOMOTIVE GEAR OILS are multipurpose, extreme pressure gear lubricants which are recommended for hypoid and bevel gear sets used in many front and rear drive differentials. These gear oils are intended for service fill, top-off and refill of hypoid and other drive axles which recommend API GL-5 gear lubricants. Can be used as a top off in limited slip applications, but is not a limited slip capable product intended for fill or refill. MILES AUTOMOTIVE GEAR OILS are suitable for use in manual transmissions where a GL-5 gear lubricant is recommended. Meet or exceed API GL-5, API MT-1, MIL-PRF-2105E, Ford WSP-M2C197-A, Meritor Automotive 0-76-D, Navistar B-22, PG-2 (anticipated requirements) and Mack GO-J, depending on viscosity. Meets the latest SAE J-306 viscosity requirements, as well as J-2360.

PROPERTIES													
PRODUCT	Viscosity, cSt @ 40 °C	Viscosity, cSt @ 100 °C	Viscosity Index	Gravity, °API	Flash Point, °F	Pour Point, °F	Oxidation stability (ASTM D 2893)	Demulsibility	Total free water, ml	Emulsion, ml	Rust Test (ASTM D665)	Copper strip corrosion (ASTM D130)	Foam test (ASTM D 892), foam volume, ml Sequences 1-3
80W-90	160	15.2	98	28.5	415	-10	5.6	ASTM D2711	86.3	0.05	Pass	1	TR/0
85W-140	451.25	29.55	98	27.5	460	0	5.7	ASTM D2711	85.5	Nil	Pass	1	TR/0

SERIES MIL-GEAR - AUTOMOTIVE SYNTHETIC GEAR OILS

MILES MIL-GEAR S is fully synthetic, PAO based, gear oils, designed for heavy-load and high-temperature applications and formulated with enhanced extreme-pressure (EP) additives. Series MILES MIL-GEAR S provides excellent protection and a long fluid life — even in the most demanding applications and environments. Excellent lubricity, Outstanding carbon and varnish control, Very high film strength, Excellent fluid life, Excellent dispersant properties, Enhanced resistance against water contamination, Excellent protection against wear, rust and corrosion, Reduced maintenance costs and downtime, Non-toxic/non-hazardous.

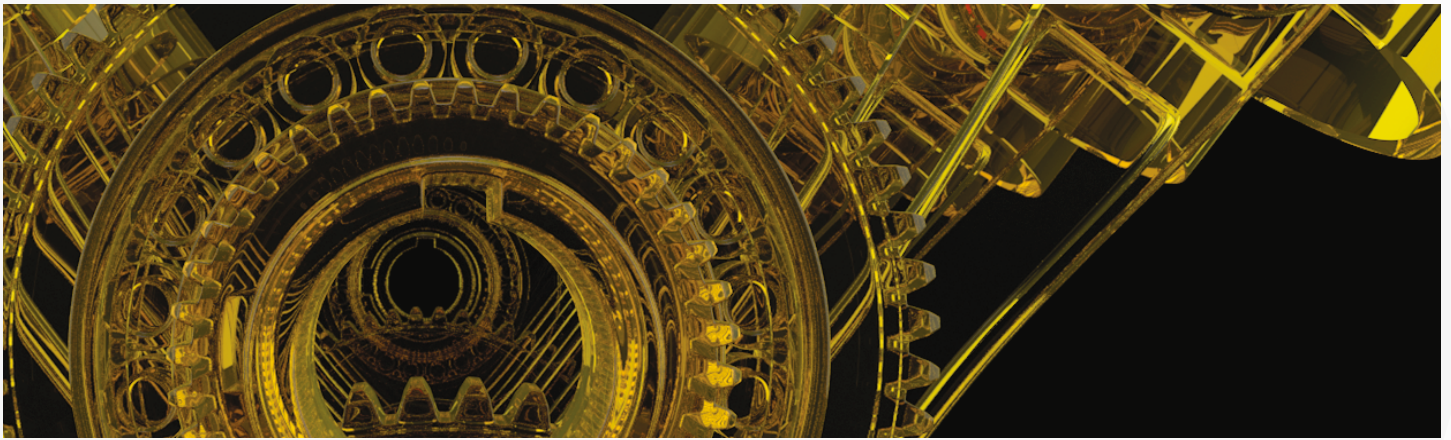
PROPERTIES								
PRODUCT	Viscosity, cSt @ 40 °C	Viscosity, cSt @ 100 °C	Viscosity Index	Flash Point, °F	Pour Point, °F	Timken "OK" Load Lb.	Copper Corrosion, 24 Hr.	Sealed Tube Stability
MIL-GEAR S 75W-90	110	15	142	510	-40	50	1b	40/38/2
MIL-GEAR S 80W-140	260	33.2	173	515	-35	40	1b	40/38/2

GREASE

SERIES MINERAL GREASES

MILES SERIES GREASES are formulated from high viscosity base oil and lithium complex thickener. It contains tackiness additive to enhance retention on lubricant parts. These properties help form an effective seal to help minimize bearing contamination and stay in-place while in service.

PROPERTIES											
PRODUCT	APPLICATION	NLGI GRADE	TEXTURE	SOAP TYPE	WORK PENETRATION	RUST RATING	VISCOSITY SUS @ 40 C	TIMKEN OK LOAD	DROPPING POINT, F	COLOR	BASE STOCK
SUPER RED GREASE	HEAVY DUTY	2	SMOOTH	LITHIUM	265 - 295	PASS	451	70-80 LBS	350 +	RED	MINERAL OIL
MD LITHIUM	MULTI-PURPOSE	2	SMOOTH	LITHIUM	265 - 295	PASS	517	45 LBS	360 min	AMBER	MINERAL OIL
MOLY LITHIUM	AUTOMOTIVE & INDUSTRIAL	2	SMOOTH	MOLY LITHIUM	265-295	PASS	441		450-500	BLACK	MINERAL OIL



SPECIALTY GREASES

MILES EP SYN GREASE

MILES EP SYN GREASE is an Aluminum Complex, very tacky, adhesive grease made to operate in wet environments. It is made with special water resistant additives which give it water wash off properties that far exceed those of normal greases. This synergistic combination of additives and synthetic base fluids provides exceptional performance even in the most demanding applications.

Miles HT Silica Grease

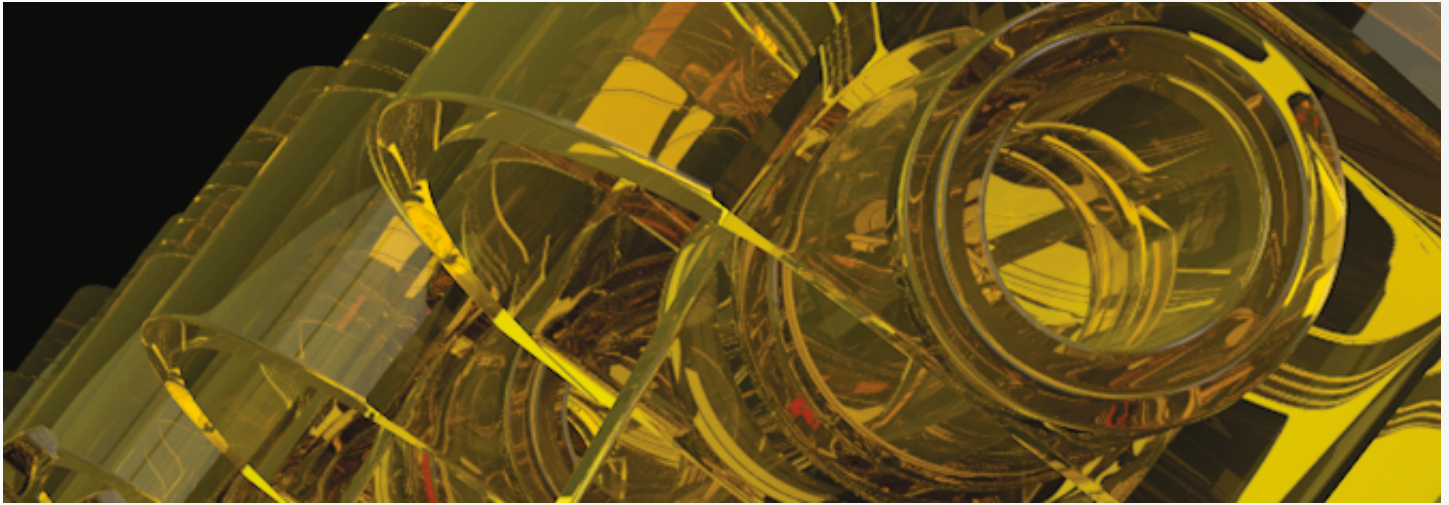
MILES HT SILICA GREASE is specially formulated for high temperature wheel bearing applications. It is made with silica gel thickeners and specific synthetic base stocks and additives which are capable of providing exceptional service in severe applications. MILES HT SILICA GREASE meets H1 requirements for lubricants with incidental food contact and complies with FDA 21 CFR 178.3570.

Miles EP Bio Grease

Miles EP Bio Grease is a Calcium Sulfonate grease made with synthetic base stocks and a special proprietary additive system that includes waterproof thickeners and rust inhibitors. It is specifically designed for fresh and salt water applications, providing excellent thermal and oxidative resistance. Miles EP Bio Grease also resists water washout and decomposition under wet conditions.

PRODUCT	PENETRATION 60 Strokes	PENETRATION 10.000 Strokes	DROPPING POINT, F	RUST TEST	WATER WASHOUT, % LOSS @
EP SYN GREASE	268	275	550	PASS	<0.1
HT SILICA GREASE	415	425	NONE	PASS	<1
EP Bio Grease	270	277	550	PASS	0.2

HYDRAULIC FLUIDS ANTI-WEAR



HYTEX SERIES - are high performance, anti-wear hydraulic oils designed for heavy-duty hydraulic systems operating over a wide range of temperatures. They produce excellent results in a wide variety of high pressure hydraulic systems found on industrial machinery, ships, woodlands and mining operations, and other mobile equipment. HYTEX AW Oils are an exclusive blend of exceptionally pure Hydro Treated base oils (Hydrocracking), and specially selected additives that deliver outstanding performance and extended service life.

Compared to conventional hydraulic oils, HYTEX AW Oils offer: Outstanding, long term resistance to breakdown caused by air and high temperatures; Improved anti-wear protection superior rust and corrosion prevention

PROPERTIES											
PRODUCT	Operating Temp Range °F	Viscosity cSt at 40°C Sus/100°F	Viscosity index	Flash Point, °F	Pour Point „, °F	Oxidation Stability „, hours	Rust Test A&B 48 hour	Pump Wear Test Denison Vane, T-52 Vickers 35VQ25	Four Ball Wear. scar diameter mm	Water Separability 129.2 °F	Water Separability 129.2 °F
HYTEX - 32	12.2-145.4	32.0/150	99	429.8	-32.8	2500	PASS	PASS	0.5	40/40/0 (15)	PASS
HYTEX - 46	23-165.2	47.0/200	99	431.6	-27.4	2500	PASS	PASS	0.5	41/39/0 (10)	PASS
HYTEX - 68	32-183.2	68.4/300	93	438.8	-27.4	2500	PASS	PASS	0.4	40/40/0 (10)	PASS

STRATUS SERIES - Excellent performance, reinforced with extra package of additives that provide long life anti-wear hydraulic oils. It's designed for heavy-duty hydraulic systems operating over a wide range of temperatures. Miles Stratus Series produce excellent results in a wide variety of high pressure hydraulic systems found on industrial machinery, ships, woodlands and mining operations, and other mobile equipment.

Miles STRATUS AW Oils are an exclusive blend of exceptionally pure Hydro Treated base oils (Hydro-cracking), and specially selected additives that deliver outstanding performance and extended service life.

Compared to conventional hydraulic oils, Miles STRATUS AW Oils offer: Outstanding, long term resistance to breakdown caused by air and high temperatures improved anti-wear protection superior rust and corrosion prevention

PROPERTIES										
PRODUCT	Viscosity cSt at 40°C Sus/100°F	ISO Viscosity	Flash Point, °F	Pour Point, °F	Oxidation Stability, hours	Rust Test A&B 48 hour	Pump Wear Test Denison Vane, T-52 Vickers 35VQ25	Four Ball Wear, scar diameter mm	Water Separability	Heat Test
STRATUS ISO 22	22.0 / 100	104	399.2	-38.2	8000	PASS	PASS	0.5	40/40/0 (5)	PASS
STRATUS ISO 32	32.0/150	99	429.8	-32.8	8000	PASS	PASS	0.5	40/40/0 (15)	PASS
STRATUS ISO 46	47.0/200	99	431.6	-27.4	8000	PASS	PASS	0.5	41/39/0(10)	PASS
STRATUS ISO 68	68.4/300	93	438.8	-27.4	8000	PASS	PASS	0.4	40/40/0(10)	PASS
STRATUS ISO 100	94.6/500	100	467.6	-16.6	8000	PASS	PASS	0.4	179.6°F 40/39/1 (20)	PASS
STRATUS ISO 150	150.0/699	95	465	15	8000	PASS	PASS	0.4	10	PASS

R & O HYDRAULIC FLUID

STRATUS R & O SERIES - high quality lubricants recommended for use in steam and gas turbines, as well as in the circulating oils systems of a wide range of industrial machinery. Miles STRATUS T Oils counteract rust and oxidation with blends of our exceptionally pure Hydro Treated (Hydrocracked) base oils, and specially selected additives. These formulations deliver reliable performance and extended service life.

Compared to conventional oils, Miles STRATUS T Oils offer: Outstanding, long term resistance to breakdown caused by air and high temperatures; Superior rust and corrosion prevention; Excellent water separability

PROPERTIES												
PRODUCT	COLOR	Density Kg/L @ 59 °F	Viscosity CSt @ 40 °C Sus/ 100 ° F	ISO Viscosity	Flash Point. °F	Pour Point. °F	Oxidation Stability. hours	RBOT. mins	Rust Test A&B 48 hour	Water Separability	Total Acid # (TAN)	Bearing & Gear Lubrctn Operatg Temp
STRATUS-T - 32	1	0.861	31.150 Sus	150	410	-32.8	4500+	400	PASS	41/39/0 (5)	0.1	-9.4 To 145.4
STRATUS-T - 46	1	0.865	44.8 200	99	417.2	-27.4	4000+	400	-	42/38/0 (1)	0.1	-4 To 165.2
STRATUS-T - 68	1	0.866	66.1 300 SUS	100	446	-22	4000+	400	42/38/0(10)	0.1	0.1	1.4 TO 183.2

SYNTHETIC HYDRAULIC OIL

HYDRO - SYN SERIES is utilizes advanced synthetic base fluids and additives to provide biodegradability without sacrificing performance. This advanced technology formulation has a long fluid life even in severe operating conditions, and offers excellent resistance against wear, corrosion and carbon deposits.

PROPERTIES													
PRODUCT	Viscosity CSt @ 40 °C	Oxidation Stability, hours	COLOR	Flash Point, °F	Pour Point, °F	Copper Corrosion	Rust Test	Foam Sequence 1	Pump Wear Test Vickers (I-286-S, M2950-S, 35VQ25)	Racine	Cincinnati Milacron	Denison (HF-0, HF-2)	Demulsibility, 130°F, 30 Min
HYDRO-SYN - 32	31	10000+	<.5	420	-44	1a	PASS	0/0	PASS	MEETS	MEETS	MEETS	40/40/0
HYDRO-SYN - 46	45.1	10000+	<.5	435	-40	1a	PASS	0/0	PASS	MEETS	MEETS	MEETS	40/40/0
HYDRO-SYN - 68	66.3	10000+	<.5	450	-36	1a	PASS	0/0	PASS	MEETS	MEETS	MEETS	40/40/0
HYDRO-SYN - 100	101	10000+	<.5	516	-28	1a	PASS	0/0	PASS	MEETS	MEETS	MEETS	40/40/0

TURBINE OIL

HISYN TURBO SERIES - is formulated to provide superior service and very long life in all types of gas turbines. It has excellent oxidation resistance, unsurpassed thermal stability, and excellent carbon and varnish control. Series Miles HISYN TURBO meets all stationary turbine manufacturers specifications and is recommended for all applications, even those where bearing temperatures are well in excess of 500°F.

Series Miles HISYN TURBO advanced proprietary formulation provides superior protection and performance — even in severe operating environments.

PROPERTIES									
PRODUCT	Viscosity Index	Viscosity CSt @ 40 °C/ 100 ° C	Flash Point, °F	Pour Point, °F	Four Ball, 40 Kg, 1200 RPM, 167°F, 1 Hr. Scar Dia mm	Rust Test	Copper Corrosion, 24 Hr	Demulsibility, 130°F, 30 Min	
HISYN TURBO - 32	122	33.2/5.9	440	-50	0.39	PASS	1a	40/40/0	
HISYN TURBO - 46	127	46.5/7.5	448	-45	0.39	PASS	1a	40/40/0	
HISYN TURBO - 68	124	67.9/9.6	465	-43	0.39	PASS	1a	40/40/0	
HISYN TURBO - 100	121	102/12.8	502	-40	0.39	PASS	1a	40/40/0	

SIRIES ESTECH TURBO - is formulated to provide superior service and very long life in all types of gas turbines. It has excellent oxidation resistance, unsurpassed thermal stability, and excellent carbon and varnish control. MILES ESTECH TURBO meets all stationary turbine manufacturers specifications and is recommended for all applications, even those where bearing temperatures are well in excess of 500°F.

Miles ESTECH TURBO advanced proprietary formulation provides superior protection and performance — even in severe operating environments.

PROPERTIES								
PRODUCT	Viscosity Index	Viscosity CSt @ 40 °C/ 100 °C	Flash Point, °F	Pour Point, °F	Four Ball, 40 Kg, 1200 RPM, 167°F, 1 Hr, Scar Dia mm	Rust Test	Copper Corrosion, 24 Hr	Demulsibility, 130°F, 30 Min
ESTECH TURBO - 32	109	31.0/5.4	420	-50	0.39	PASS	1a	40/39/0
ESTECH TURBO - 46	111	45.0/7.6	440	-47	0.39	PASS	1a	40/39/0
ESTECH TURBO - 68	114	65.0/9.0	468	-43	0.39	PASS	1a	40/39/0
ESTECH TURBO - 100	117	99.0/12.3	490	-41	0.39	PASS	1a	40/39/0

INDUSTRIAL GEAR OIL

SERIES NIMBUS - INDUSTRIAL GEAR OIL

Miles NIMBUS Lubricants are premium quality gear and lubricating oils blended from high quality base oils. These oils contain additive systems which impart the superior lubricating characteristics required for gear lubrication, bearing lubrication, slides, ways and chain drives.

NIMBUS Gear Lubricants, through the combination of highly refined base oils and up-to-date additive technology, are more economical than oils of lesser quality and lower initial cost. Using NIMBUS, in conjunction with a proper maintenance program, will result in longer equipment life. Both maintenance cost and downtime may be significantly reduced through the use of NIMBUS gear lubricants.

PROPERTIES							
PRODUCT	ISO Viscosity	Flash Point, °F	Pour Point, °F	Foam tendency/ stability D892	Rust Protection. distilled water, D 665A	Timken "OK" Load, KG	Copper Corrosion, D130
NIMUS 68	68	400	-15	0/0	PASS	60	PASS
NIMUS 100	100	420	-10	0/0	PASS	60	PASS
NIMUS 150	150	420	-10	0/0	PASS	60	PASS
NIMUS 220	220	420	0	0/0	PASS	60	PASS
NIMUS 320	320	450	0	0/0	PASS	60	PASS
NIMUS 460	460	440	10	0/0	PASS	60	PASS
NIMUS 680	680	475	10	0/0	PASS	60	PASS

SERIES MIL-GEAR S - INDUSTRIAL SYNTHETIC GEAR OILS

SERIES MIL-GEAR S is full synthetic gear oil, formulated to provide a long fluid life with excellent lubricity and wear protection. It offers outstanding protection — even in the most demanding applications.

• Excellent lubricity • Very high film strength • Excellent fluid life • Outstanding carbon and varnish control • Excellent dispersant properties • Enhanced resistance against water contamination • Reduced maintenance costs and downtime • Excellent protection against wear, rust and corrosion • Non-toxic/non-hazardous

PROPERTIES

PRODUCT	ISO Viscosity	Viscosity, cSt @ 40 °C	Viscosity cSt @ 100 °C	Viscosity Index	Flash Point, °F	Pour Point, °F	Timken "OK" Load, KG	Copper Corrosion, 24 Hr.
MIL-GEAR S 100	100	102	11.7	101	500	-48	40	1a
MIL-GEAR S 150	150	148.3	16	113	515	-46	40	1a
MIL-GEAR S 220	220	219.8	21	113	520	-45	40	1a
MIL-GEAR S 320	320	308.2	26.6	114	522	-31	40	1a
MIL-GEAR S 460	460	457	35	115	525	-22	40	1a
MIL-GEAR S 680	680	640.1	44.1	115	523	-18	40	1a
MIL-GEAR S 1000	1000	986	95	188	518	-18	40	1a

INHIBITED ELECTRICAL INSULATING OIL

ERGON HYVOLT II - INHIBITED ELECTRICAL INSULATING OIL These oils have desirable aquatic toxicity and carcinogenicity characteristics. Additional information is available upon request.

PROPERTIES

PRODUCT	Standard Specification ASTM D 3487	Viscosity, cSt @ 40 °C/cSt @ 100 °C ASTM D 445	Specific Gravity, 15°C/15°C ASTM D 4052	Pour Point, °C ASTM D 97	Color, ASTM D1500	Flash Point, COC. °C ASTM D 92	Interfacial Tension @ 25°C, dynes/cm ASTM D 971	Aniline Point, °C ASTM D 611	Dielectric Breakdown, Kv -ASTM D 1816
ERGON HYVOLT II	Type II	9.3/2.3	0.887	-64	0.5	155	51	74.7	50

Power Factor, 25°C. % ASTM D 924	Power Factor, 100°C. % ASTM D 924	Oxidation Stability 72 hr: % Sludge by mass, Total acid number, mg KOH/g 164 hr: % Sludge by mass, Total acid number, mg KOH/g ASTM D 2440	Oxidation Stability (Pressure Vessel), minutes ASTM D 2112	Oxidation Inhibitor Content, wt% AASTM D 2668	Corrosive Sulfur ASTM D 1275 B (modified version)	Water, ppm	Neutralization Number, mg KOH/g ASTM D 974	PCB Content, ppm ASTM D 4059	Polycyclic Aromatic Compound, % (w/w) IP 346	Modified Ames Assay ASTM E 1687
0.005	0.075	<0.1	248	0.26	Non-corrosive	9	<0.01	ND	<3	PASS

METAL WORKING CUTTING FLUIDS



KLEER-SULF is premium quality medium duty cutting oil. It is an amber colored, sulfurized, compounded from premium quality fatty mineral oil. This cutting oil is formulated for medium to heavy machining operations, such as threading and tapping, and broaching. It is also recommended as semi-base cutting oil which can be blended with mineral oil to address a variety of work situations.

KLEER-SULF HD is premium quality heavy-duty cutting oil. It is an amber colored, sulfurized, cutting oil, compounded from premium quality fatty mineral oil. This cutting oil is formulated for heavy duty machining operations, such as threading and tapping, and broaching. It is also recommended as a semi-base cutting oil which can be blended with mineral oil to address a variety of work situations.

SULF KUT - is premium quality cutting oil. It is a dark colored, sulfurized, chlorinated cutting oil, compounded with premium quality fatty mineral oil, and formulated for medium to heavy duty applications.

SULF KUT HD - is premium quality heavy-duty cutting oil. It is a dark colored, sulfurized, chlorinated cutting oil, compounded from premium quality fatty mineral oil, and formulated for severe duty applications.

PROPERTIES						
PRODUCT	Color	Viscosity:SUS @ 100 °F	Flash. COC °F	Active Sulfur	Chlorine	Fatty Oil
KLEER-SULF	Yellow	150	315	YES	NIL	YES
KLEER-SULF HD	Amber	245	315	YES	YES	YES
SULF KUT	Dark	150	315	YES	YES	YES
SULF KUT HD	Dark	245	390	2.5	2.8	5

SLIDEWAY OIL

WAY LUBE EXTRA LT - The QS Way Lube Oils are premium-quality lubricants blended from highly refined base stocks. They have been fortified with advanced additives to impart excellent lubricity and extreme pressure properties. QS Way Lubes exhibit high film strength which allows build-up of a thick oil film that enables accurate table positioning and prevents wear of system components. This allows smooth, uniform motion at design travel speeds. The QS Way Lube Oils are optimized to provide sustained fast separating from aqueous coolants.

WAY LUBE LT - The QS Way Lube Oils are premium-quality lubricants blended from highly refined base stocks. They have been fortified with advanced additives to impart excellent lubricity and extreme pressure properties. QS Way Lubes exhibit high film strength which allows build-up of a thick oil film that enables accurate table positioning and prevents wear of system components. This allows smooth, uniform motion at design travel speeds. The QS Way Lube Oils are optimized to provide sustained fast separating from aqueous coolants.

WAY LUBE HEAVY - The QS Way Lube Oils are premium-quality lubricants blended from highly refined base stocks. They have been fortified with advanced additives to impart excellent lubricity and extreme pressure properties. QS Way Lubes exhibit high film strength which allows build-up of a thick oil film that enables accurate table positioning and prevents wear of system components. This allows smooth, uniform motion at design travel speeds. The QS Way Lube Oils are optimized to provide sustained fast separating from aqueous coolants.

PROPERTIES

PRODUCT	ISO Viscosity Grade	Viscosity cSt @ 40°C	Viscosity Index	Copper Strip Corrosion, ASTM D 130. 3 h @ 100°C	Rust Protection, ASTM D 665A	FZG Load Support, DIN 51354. Fail Stage	4-Ball Wear, Scar Dia, 20 Kg. 54°C, 1800 RPM. >1 hr, ASTM D 4172, mm	Weld Load, 4-Ball EP, ASTM D 2783, kg	Pour Point, °C, ASTM D 97	Flash Point, °C, ASTM D 92
WAY LUBE EXTRA LT	32	31	96	18	PASS	13	0.25	200	-31	214
WAY LUBE LT	68	66	96	18	PASS	13	0.25	200	-34	230
WAY LUBE HEAVY	220	219	96	18	PASS	13	0.25	200	-3	238

MINERAL WATER SOLUBLE

SOL KUT is a premium quality, general purpose soluble oil. It provides excellent rust protection, and emulsion stability.

The result is a longer lasting material well suited for all general purpose machining, along with grinding, specialized quenching and water hydraulic applications. Recommended concentrations vary depending on the application.

General Machining (5-10%), Grinding (2-4%), Specialized Quench (10%), Water Hydraulics (1-3%).

SOL KUT HD is a heavy duty BIOSTABLE soluble oil concentrate containing a chlorinated additive for difficult machining operations. This product was designed to be extended with water for the machining and grinding of virtually all metals except magnesium. MILES SOL KUT HD is excellent on high silicon aluminum alloys. MILES SOL KUT HD is designed for use in all metalworking applications such as CNC milling, turning, drilling, tapping and grinding. MILES SOL KUT HD is also excellent on cast iron and sawing applications. • Eliminates Need for Tankside Additives • Mild Pleasant Odor • Excellent Corrosion Inhibition • Long Lasting • Excellent Hard Water Stability • Operator Friendly

SOL KUT HP is a BIOSTABLE semi-synthetic high pressure metalworking coolant containing

approximately 15% mineral oil. MILES SOL KUT HP has exceptional foam control, hard water stability and tramp oil rejection while providing outstanding lubricity for machining and grinding. It is compatible with

virtually all metals except Magnesium and is formulated without the use of Chlorine.

SOL KUT HP HD is a heavy duty BIOSTABLE semi-synthetic high pressure metalworking coolant. MILES SOL KUT HP HD combines the superior chemical flexibility of synthetics with mineral oil and a chlorinated extreme-pressure additive. MILES SOL KUT HP HD has exceptional foam control, hard water stability and tramp oil rejection. It provides outstanding extreme-pressure lubricity for machining and grinding virtually all metals, particularly Aluminum, Stainless Steels and other hard to machine alloys. MILES SOL KUT HP HD is not recommended for use on Magnesium.

PRODUCT	APPEARANCE - CONCENTRATE	APPEARANCE - DILUTION	RESIDUAL FILM	pH @ 20:1	SPECIFIC GRAVITY @ 60°F	TOTAL CHLORINE, WT %
SOL KUT	Amber liquid	Translucent Amber	Soft. fluid	-	0.924± 0.03	NONE
SOL KUT HD	Amber liquid	Opaque Amber	Soft. fluid	9.2 ± 0.2	0.95± 0.03	8-9 % MAX
SOL KUT HP	Amber liquid	Translucent Amber	Soft. fluid	9.2 ± 0.2	1.02 ± 0.03	NONE
SOL KUT HP HD	Amber liquid	Translucent Amber	Soft. fluid	9.0 ± 0.2	1.03 ± 0.03	3-5 % MAX

RECOMMENDED CONCENTRATIONS

APPLICATION	MILLING, DRILLING, TURNING	CENTERLESS, ID, OD, SUFRACE GRINDING	TAPPING, SAWING, REAMING
CONCENTRATION % / RATIO	5 % - 10 % . 1:10 - 1:20	4 % . 1:25	10 % . 1:10

SYNTHETIC WATER SOLUBLE

KOOL SOL SS A is a semi-synthetic BIOSTABLE general purpose metalworking coolant containing approximately 20% mineral oil. This product, when diluted with water, forms a translucent amber emulsion which offers excellent workpiece visibility, good lubricity, and superior cooling. MILES KOOL SOL SS A is designed for the machining and grinding of virtually all metals, except magnesium and is formulated without the use of chlorine. • Good Workpiece Visibility • Mild Pleasant Odor • Excellent Corrosion Inhibition • Long Lasting • Excellent Hard Water Stability • Operator Friendly

KOOL SOL SS B is a semi-synthetic general purpose metalworking coolant containing approximately 10% mineral oil. This product, when diluted with water, forms a translucent Amber emulsion which offers excellent workpiece visibility, good lubricity, and superior cooling. MILES KOOL SOL SS B is designed for the machining and grinding of virtually all metals, except magnesium and is formulated without the use of Chlorine. • Good Workpiece Visibility • Mild Pleasant Odor • Excellent Corrosion Inhibition • Long Lasting • Excellent Hard Water Stability • Operator Friendly

KOOL SOL SS HD is a heavy duty BIOSTABLE semi-synthetic general purpose metalworking coolant containing approximately 20% mineral oil. This product, when diluted with water, forms a translucent amber emulsion which offers excellent workpiece visibility, good lubricity, and superior cooling. MILES KOOL SOL SS HD is designed for the machining and grinding of virtually all metals, except magnesium, and contains chlorine as an extreme pressure additive for greater lubricity. • Good Workpiece Visibility • Mild Pleasant Odor • Excellent Corrosion Inhibition • Long Lasting • Excellent Hard Water Stability • Operator Friendly

KOOL SOL SYN is a heavy-duty oil-free synthetic cutting and grinding fluid concentrate designed to offer outstanding machining performance as well as excellent corrosion control on machinery and workpieces while providing a long sump life. This product may be used on a variety of metals, including steels, cast iron and aluminum; in operations ranging from grinding to turning to milling.

KOOL SOL SYN-G is a heavy-duty oil-free synthetic cutting and grinding fluid concentrate designed to offer good lubricity as well as excellent corrosion control on machinery and workpieces while providing a long sump life. This product may be used on a variety of metals, including steels, cast iron and aluminum; in operations ranging from grinding to turning to milling. • Excellent Corrosion Inhibition • Nitrite-Free • Chlorine-Free • Phenol-Free • Very Low Foam - Excellent on High Pressure or High Speed Machining • Excellent Cooling for Ability to Maintain Close Tolerances • Tolerant of Hard Water • Resistant to Damage from Tramp Oil • Water Extendable - Economical • Long Tank Life

PROPERTIES

PRODUCT	APPEARANCE - CONCENTRATE	APPEARANCE - DILUTION	RESIDUAL FILM	pH @ 20:1	SPECIFIC GRAVITY @ 60°F	TOTAL CHLORINE, WT %
KOOL SOL SS A	Amber liquid	Translucent amber	Soft. fluid	9.1 ± 0.2	1.0 ± 0.03	NONE
KOOL SOL SS B	Amber liquid	Translucent amber	Soft. fluid	9.0 ± 0.2	1.0 ± 0.03	NONE
KOOL SOL SS HD	Amber liquid	Translucent amber	Soft. fluid	9.1 ± 0.2	1.0 ± 0.03	1
KOOL SOL SYN	Blue liquid	Translucent Blue	Soft. fluid	9.5 ± 0.2	1.04 ± 0.03	NONE
KOOL SOL SYN G	Blue liquid	Translucent Blue	Soft. soluble	9.5 ± 0.2	1.03 ± 0.03	NONE

RECOMMENDED CONCENTRATIONS

APPLICATION	MILLING, DRILLING, TURNING	CENTERLESS, ID, OD, SURFACE GRINDING	TAPPING, SAWING, REAMING
CONCENTRATION % / RATIO	5 % - 10 % . 1:10 - 1:20	4 % . 1:25	10 % . 1:10



SOL KUT CLEAN A is a low foam alkaline cleaner designed to remove process oils, gummy deposits of oil, grease, swarf and normal shop soils from machine tools, floors, and other hard surfaces. It combines organic and mineral alkalinity builders, detergents, water conditioners and deodorizer for optimum performance. The primary application of MILES SOL KUT CLEAN A is for cleaning machine tool coolant sumps and surfaces. It may also be used for general cleaning with mop and bucket, auto-scrubber or spray washer.

SOL KUT CLEAN F is a fast-acting, deep-penetrating liquid alkaline general maintenance and floor cleaner which provides outstanding performance in a variety of cleaning applications.

PRODUCT	APPEARANCE - CONCENTRATE	pH @ 20:1	SPECIFIC GRAVITY @ 60°F	LBS/GALLON	TOTAL CHLORINE, WT %
SOL KUT CLEAN A	Clear blue liquid	10.8 ± 0.2	1.02 ± 0.02	8.5 ± 0.1	NONE
SOL KUT CLEAN F	Clear blue liquid	9.5 ± 0.2	1.08 ± 0.03	9.0 ± 0.1	NONE

RECOMMENDED CONCENTRATIONS

PRODUCT	MOST CLEANING APPLICATIONS	HEAVY DEPOSIT OF SOIL & SLUDGE	ADDED DIRECTLY TO OLD COOLANT
SOL KUT CLEAN A	20:1 @ 70-110 F Spray Wash Tanks	10:01 70 F. - 110 F. Soak Tanks. Baths	2 - 4 % by Volume Auto Scrubbers
SOL KUT CLEAN F	2 to 5 %	4 to 10 %	3 to 5 %



FOOD GRADE



SERIES KOSHER USP WHITE OILS are food grade white mineral oils hydro treated with the highest degree of purity, and are stabilized with Vitamin E oxidation inhibitors. MILES KOSHER USP OILS meet requirements set forth in the U.S. FDA regulations 21 CFR 172.878 for use in or on food for human consumption, and 21 CFR 178.3620 for use as a component of nonfood articles intended for use in contact with food for human consumption. These oils meet the current standards of National Formulary (NF) or US Pharmacopeia (USP), and are registered as 3H and H1 lubricants for direct and incidental food contact by NSE for use in food plants under the jurisdiction of the USDA. MILES KOSHER USP OILS are certified as Kosher with the Union of Orthodox Jewish Congregations of America.

	Viscosity, CST @ 40C	Viscosity, CST @ 100F	Viscosity, SUS @ 100F	Gravity, API, 60°F	Color (Saybolt)	Carbonizable Substances	Solid Paraffins	Water Content, ppm	Appearance	Acidity	UV Absorb	Limit Polycyc. Arom. Hydrocarb.	Limit of Sulfur Compounds	Infrared Absorption
	D445	D445	D2161	D4052	D156	D565	USP	D1533	VISUAL	USP	D2269	USP	USP	USP
KOSHER USP 70	12,35	13,35	71	34,4	+30	PASS	PASS	16	B&C	PASS	PASS	PASS	PASS	PASS
KOSHER USP 90	15,77	17,09	86,4	34,4	+30	PASS	PASS	16	B&C	PASS	PASS	PASS	PASS	PASS
KOSHER USP 350	68,10	76,03	352,7	31,2	+30	PASS	PASS	12	B&C	PASS	PASS	PASS	PASS	PASS

SERIES FG HYDRO FR - non-toxic and non-hazardous, and it gives an extra level of protection and operational efficiency in high- and low-temperature hydraulic applications. MILES FG HYDRO FR meets H1 requirements for lubricants with incidental food contact (FDA 21 CFR 178.3570). Its exceptional oxidative stability, corrosion resistance and anti-wear properties make it particularly well-suited for applications where other fire-resistant fluid technologies are restricted.

PRODUCT	Viscosity cSt @ 40°C (D445)	Oxidation Stability (D943)	Flash Point °F (°C)	Pour Point °F (°C)	Copper Corrosion (D130)	Rust Test (D665)	FZG Stage (1-12) (DIN51354)
FG HYDRO FR - 32	31	10000+	420 (216)	-44 (-42)	1a	Pass	12
FG HYDRO FR - 46	45.1	10000+	435 (224)	-40 (-40)	1a	Pass	12
FG HYDRO FR - 68	66.3	10000+	450 (232)	-36 (-38)	1a	Pass	12

SERIES FG MIL-GEARS - FOOD GRADE GEAR OILS

SERIES FG MIL-GEAR S - is formulated with an advanced-technology anti-wear additive package. Designed for a wide range of temperatures and operating environments. It provides outstanding lubricity and protection — even in the most demanding operating conditions. Series MILES FG MIL-GEARS meets H1 requirements (incidental food contact).

PRODUCT	ISO Viscosity	Viscosity, cSt @ 40 °C	Viscosity cSt @ 100 °C	Flash Point, °F	Pour Point, °F	Timken "OK" Load, KG	Copper Corrosion, 24 Hr.
FG MIL-GEAR S 100	100	100	12.8	266	-44	40	1a
FG MIL-GEAR S 150	150	145	15.7	268	-43	40	1a
FG MIL-GEAR S 220	220	214	20.6	271	-43	40	1a
FG MIL-GEAR S 320	320	308	26.5	272	-35	40	1a
FG MIL-GEAR S 460	460	419	32.9	274	-30	40	1a
FG MIL-GEAR S 680	680	669	42.4	274	-30	40	1a

SERIES FOOD GRADE AIR COMPRESSOR OIL - FG COMPRESSOR OIL MILES FG COMP OIL synthetic food-grade compressor lubricant contains high-performance fluids and is designed for extended drain intervals. This lubricant meets H1 requirements for lubricants with incidental food contact (FDA 21 CFR 178.3570).

SERIES ADVANCED FG COMP OIL - synthetic food-grade compressor lubricant contains high-performance fluids and is designed for extended drain intervals. This lubricant meets H1 requirements for lubricants with incidental food contact (FDA 21 CFR 178.3570).

PROPERTIES							
PRODUCT	Viscosity cSt @ 40°C	Viscosity cSt @ 100°C	Viscosity Index	Flash Point °F (°C)	Pour Point °F (°C)	Copper Corrosion, 24 Hr	Demulsibility, 130°F, 30 Min
FG COMP. OIL-32	34	6.1	127	430 (221)	-45 (-43)	1a	40/40/0
FG COMP. OIL-46	45	7.5	132	445 (229)	-38 (-39)	1a	40/40/0
FG COMP. OIL-68	66	9.7	129	465 (241)	-35 (-37)	1a	40/40/0
FG COMP. OIL-100	101	13.1	127	500 (260)	-32 (-36)	1a	40/40/0
ADVANCED FG COMP OIL-32	34	6.1	127	430(221)	-45 (-43)	1a	40/40/0
ADVANCED FG COMP OIL-46	45	7.5	132	445 (229)	-38 (-39)	1a	40/40/0
ADVANCED FG COMP OIL-68	66	9.7	129	465 (241)	-35 (-37)	1a	40/40/0
ADVANCED FG COMP OIL-100	101	13.1	127	500 (260)	-32 (-36)	1a	40/40/0

FOOD GRADE COMPRESSOR CLEANER

SERIES FG COMTECH CLEAN - food grade fluids are formulated to serve the dual purpose of air compressor lubricant and cleaner.

Intended for use in varnished and carboned screw compressors, Series MILES FG COMTECH CLEAN fluids are formulated to clean without the inconveniences typical of more aggressive cleaners. They are designed to minimize filter/separator blockage and not disrupt normal operations. Use of Series MILES FG COMTECH CLEAN fluids eliminates the need for production shifts to take compressors out of service for cleaning as well as the need to continuously change filters and separators.

PROPERTIES									
PRODUCT	Viscosity cSt @ 400C	Viscosity cSt @ 1000C	Flash Point OF	Auto-Ignition Point OF	Pour Point OF	Four Ball, 40 Kg, 1200 RPM, 1670F, 1 hr, Scar Dia mm	Four Ball Weld Point, Kg	Copper Corrosion, 24 Hr	Demulsibility, 1300F, 30 Min
FG COMTECH CLEAN -32	31	5.5	440	740	-36	0.4	100	1a	40/40/0
FG COMTECH CLEAN -46	45	7.4	453	753	-30	0.4	100	1a	40/40/0
FG COMTECH CLEAN -68	68	9.6	460	760	-28	0.4	100	1a	40/40/0
FG COMTECH CLEAN -100	96	11.8	500	800	-	0.4	100	1a	40/40/0

FOOD GRADE GREASE

EP FG Grease - food-grade Aluminum Complex grease. It is made with synthetic base stocks and a special proprietary additive system that meets H1 requirements (lubricants with incidental food contact). This synergistic combination of additives and base fluids provides exceptional performance in even the most demanding applications. MILES EP FG GREASE also provides excellent thermal and oxidative resistance, resists water washout and, decomposition under wet conditions.

HT Silica Grease - specially formulated for high temperature wheel bearing applications. It is made with silica gel thickeners and specific synthetic base stocks and additives which are capable of providing exceptional service in severe applications. MILES HT SILICA GREASE meets H1 requirements for lubricants with incidental food contact and complies with FDA 21 CFR 178.3570.

PRODUCT	PENETRATION 60 Strokes	PENETRATION 10.000 Strokes	DROPPING POINT, F	RUST TEST	WATER WASHOUT, % LOSS @
EP FG GREASE	280	277	545	PASS	0.2
HT SILICA GREASE	415	425	-	PASS	<1

ENVIRONMENTALLY FRIENDLY



SERIES ULTIHYD BIO - BIODEGRADABLE HYDRAULIC OIL is formulated with synthetic esters to provide enhanced biodegradability and performance. It provides excellent thermal and oxidative resistance, leading to a long fluid life and cleaner operations even in extreme operating conditions. MILES ULTIHYD BIO also utilizes the latest anti-wear and anti-corrosion additives to provide exceptional levels of service and protection.

PROPERTIES

PRODUCT	Viscosity cSt @ 40°C	Flash Point °F (°C)	Oxidative Stability	Pour Point °F (°C)	Copper Corrosion, 24 Hr	Rust Test	Salt Water	Fresh Water	Racine	Vickers (I-286-S, M2950-S, 35VQ25)	Denison (HF-0, HF-2)	Cincinnati Milacron
ULTIHYD BIO-32	34	435(224)	10.000 +	-47 (-44)	1a	<0.5	PASS	PASS	MEETS	PASS	MEETS	MEETS
ULTIHYD BIO-46	47	441(227)	10.000 +	-47 (-44)	1a	<0.5	PASS	PASS	MEETS	PASS	MEETS	MEETS
ULTIHYD BIO-68	68	460 (238)	10.000+	-45 (-43)	1a	<0.5	PASS	PASS	MEETS	PASS	MEETS	MEETS

SERIES BIO GEAR - BIODEGRADABLE GEAR OIL - MILES BIO GEAR is designed for environmentally sensitive applications or those requiring a biodegradable lubricant. It is formulated to offer a long oil life and wear protection without sacrificing performance.

PROPERTIES

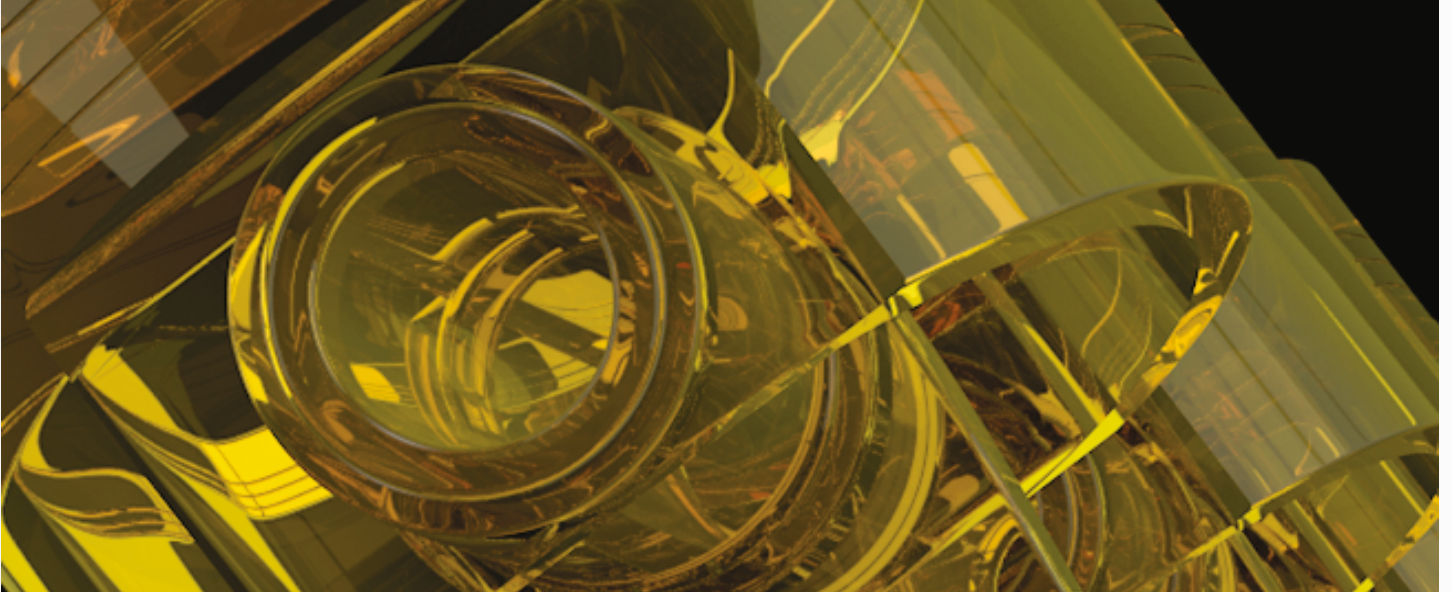
PRODUCT	Viscosity cSt @ 40°C	Viscosity cSt @ 100°C	Viscosity Index	Flash Point °F (°C)	Pour Point °F (°C)	Timken OK Load, Kg	Copper Corrosion, 24 Hr	Demulsibility, 130°F, 30 Min
BIO GEAR - 100	102	13.2	127	508 (264)	-35 (-37)	40	1a	40/39/1
BIO GEAR - 150	148	17.4	129	510 (266)	-32 (-36)	40	1a	40/39/1
BIO GEAR - 220	223	22.9	126	518 (270)	-30 (-34)	40	1a	40/38/2
BIO GEAR - 320	319	30.1	130	521 (272)	-20 (-29)	40	1a	40/38/2
BIO GEAR - 460	448	39.1	131	523 (273)	-15 (-26)	40	1a	40/37/3

EP BIO GREASE - BIODEGRADABLE GREASE is a Calcium Sulfonate grease made with synthetic base stocks and a special proprietary additive system that includes waterproof thickeners and rust inhibitors. It is specifically designed for fresh and salt water applications, providing excellent thermal and oxidative resistance. Miles EP Bio Grease also resists water washout and decomposition under wet conditions.

PROPERTIES

PRODUCT	Penetration 60 Strokes	Penetration 10.000 Strokes	Dropping Point °F	Rust Test (D665)	Water Washout, % Loss @ 100 °F	Four Ball EP (Weld) Kg	Load Wear Index Kg
EP BIO GREASE	270	277	550	PASS	0.2	315	0.55

COMPRESSOR FLUIDS



SERIES SB COMPOIL PLUS - Synthetic Blend Plus Compressor Lubricants are premium fluids blended from the finest materials available. They have been proven in millions of horsepower hours. Series MILES SB COMPOIL PLUS compressor lubricants give outstanding service—even in moderately severe operating conditions.

SERIES SXR COMP OIL - Polyalphaolefins (PAO) compressor fluid utilizes the latest high-performance, full-synthetic base stocks and additives. These advanced lubricants offer an exceptional level of protection against wear, rust and corrosion, as well as outstanding resistance against oxidation and thermal breakdown. Series MILES SXR COMP OIL is designed to provide 8,000+ hours of service.

SERIES SXR COMP COOLANT - Polyalkylene Glycol (PAG) compressor fluid offers full compatibility with most OEM polyalkylene glycol (PAG) compressor fluids. It exhibits a much longer fluid life and far superior resistance against water contamination than most OEM PAG compressor fluids. Series MILES SXR COMP COOLANT's top-off compatibility with most OEM PAG compressor fluids means that flushing of the existing compressor fluid is not necessary to change to Series MILES SXR COMP COOLANT.

SIL COMP OIL - Silicone compressor fluid designed specifically to replace OEM silicone fluids. Completely compatible with virtually all OEM silicone compressor fluids, MILES SIL COMP OIL can be mixed in any ratio and provide the same outstanding fluid life. It is formulated with an advanced-technology additive system for superior performance and also protects against oxidation, wear, rust and corrosion.

SERIES STRATUS D - Diester compressor fluid utilize synthetic diester base fluids to provide enhanced cleaning properties and outstanding carbon and varnish control. Series MILES STRATUS D fluids are formulated to provide exceptionally long fluid life and excellent resistance against thermal and oxidative breakdown.

SERIES TRIESTECH - Tri-ester High-Pressure Breathing Air Compressor Fluid is a premium compressor lubricant specifically designed to lubricate breathing air compressors. It is formulated to provide exceptional carbon resistance even in high-temperature and high-pressure compressors. MILES TRIESTECH's extremely low volatility, excellent hydrolytic stability and very high flash point all contribute to safer operation of breathing air compressors. With its advanced additive system, MILES TRIESTECH provides extraordinary wear protection.

PROPERTIES

PRODUCT	Viscosity cSt @ 40°C	Viscosity cSt @ 100°C	Flash Point °F	Pour Point °F	Four Ball, 40 Kg, 1200 RPM, RPM, 167°F, 1 hr, Scar Dia mm	Four Ball Weld Point, Kg	Copper Corrosion, 24 Hr	Demulsibility, 130°F, 30 Min
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SYNTHETIC BLEND

COMP OIL PLUS - 32	33.2	6	420	-35	0.45	100	1a	40/40/0
COMP OIL PLUS - 46	48	7.9	440	-30	0.45	100	1a	40/40/0
COMP OIL PLUS - 68	68.4	9.7	453	-29	0.45	100	1a	40/40/0
COMP OIL PLUS - 100	100.1	12	465	-29	0.44	100	1a	40/40/0

POLYALPHAOLEFINS (PAO)

PRODUCT	Viscosity cSt @ 40°C/Viscosity cSt @ 100°C	Auto-Ignition Point °F	Viscosity Index	Flash Point °F (°C)	Pour Point °F (°C)	Copper Corrosion, 24 Hr	Demulsibility, 130°F, 30 Min	Foam Sequence I, II, III	Four Ball, 40 Kg, 1200 RPM, 167 °F, 1 hr, Scar Dia mm	Four Ball Weld Point, Kg
SXR COMP. OIL - 32	34/6.1	-	127	440 (227)	-64 (-53)	1a	40/40/0	Nil	-	-
SXR COMP. OIL - 46	49/7.9	-	130	450 (232)	-61 (-52)	1a	40/40/0	Nil	-	-
SXR COMP. OIL - 68	69/10.2	-	131	498 (259)	-57 (-49)	1a	40/40/0	Nil	-	-
SXR COMP. OIL - 100	106/13.5	-	135	501 (261)	-55 (-48)	1a	40/40/0	Nil	-	-
SXR COMP. OIL - 150	34/6.1	735	-	440	-64	1a	40/40/0	Nil	0.4	100
SXR COMP. OIL - 200	49/7.9	785	-	450	-61	1a	40/40/0	Nil	0.4	100
SXR COMP. OIL - 320	69.8/10.2	790	-	498	-57	1a	40/40/0	Nil	0.4	110

POLYALKYLENE GLYCOL (PAG)

PRODUCT	Viscosity cSt @ 40°C	Viscosity cSt @ 100°C	Viscosity Index	Flash Point °F (°C)	Auto-Ignition Point °F (°C)	Pour Point °F (°C)	Copper Corrosion, 24 Hr	Demulsibility, 130°F, 30 Min
SXR COMP COOLANT-32	31	5.5	120	450 (232)	710 (377)	-40 (-40)	1a	40/39/1
SXR COMP COOLANT-46	45	7.3	125	465 (241)	721 (383)	-36 (-38)	1a	40/39/1
SXR COMP COOLANT-68	42	7	465	-36	0.41	100	1a	40/39/1

SILICON

SILICON COMP. OIL	39.21	16.25	575	-67	1.99	126	1a	40/40/0
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DIESTER

PRODUCT	Viscosity cSt @ 40°C	Viscosity cSt @ 100°C	Flash Point °F	Pour Point °F	Four Ball, 40 Kg, 1200 RPM, 167OF, 1 hr, Scar Dia mm	Copper Corrosion, 24 Hr	USDA Authorization	Demulsibility, 130OF, 30 Min
STRATUS D - 32	22	5.5	420	-45	0.4	1a	H-2	40/38/2
STRATUS D - 46	42	6.4	450	-45	0.4	1a	H-2	40/38/2
STRATUS D - 68	68	8.8	480	-45	0.4	1a	H-2	40/38/2
STRATUS D - 100	100	12	485	-35	0.4	1a	H-2	40/38/2
STRATUS D - 150	150	16.6	502	-30	0.4	1a	H-2	40/38/2

TRI-ESTER

PROPERTIES

PRODUCT	Viscosity cSt @ 40°C	Viscosity cSt @ 100°C	Viscosity Index	Fire Point °F (°C)	Pour Point °F(°C)	Copper Corrosion, 24 Hr	Demulsibility, 130°F, 30 Min
TRISTECH	135	13.6	96	585(307)	-40 (-40)	1a	40/39/1

COMPRESSOR CLEANERS

COMP CLEANER CONCENTRATE consists of premium, fast-acting concentrate cleaners. It is designed to be added to compressor lubricants to remove carbon, varnish and other hydrocarbon-related deposits.

MILES COMP CLEANER CONCENTRATE is recommended for use at a ratio of 1 part concentrate to 10 parts lubricant.

PRODUCT	Viscosity cSt @ 40°C	Viscosity cSt @ 100°C	Flash Point °F(°C)	Pour Point °F(°C)
COMP. CLEANER CONCENTRATE	17	3.7	180(82)	-12 (-24)



MILES LAB ANALYSIS

FOCUS ON PROACTIVE MAINTENANCE

ACCESS ALL PREVIOUSLY DONE TESTS

RELY ON PROFESSIONALISM

Miles Analysis is the most detailed and accurate fluid testing and analysis system on the market.

Miles Analysis provides expert lubricant analysis to monitor equipment health through tests, including oil, grease, fuel, varnish, coolant, and chip testing.

FOCUS ON PROACTIVE MAINTENANCE

Miles Analysis will help you be proactive with the maintenance of your equipment. Miles Analysis saves you money by helping you keep your mobile or stationary machinery running optimally, extending the life, and helping you prevent unexpected and expensive down time.

INDUSTRIES SERVED

AVIATION

HEAVY EQUIPMENT

HVAC

MANUFACTURING / INDUSTRIAL

MARINE

MINING

OIL & GAS

POWER GENERATION

PULP & PAPER

TRANSPORTATION

PACKAGING CONTAINERS

BOTTLE



16 OZ / 473 ml

BOTTLE



1 QUART / 946 ml
2 LB / 0.907 kg

JUGS



1 GAL / 3.79 L
7 LB / 3.18 kg

PAIL



35 LB / 15.9 kg
5 GAL / 18.9 L

KEG



120 LB / 54 kg
16 GAL / 60.5 L

DRUM



420 LB / 191 kg
55 GAL / 208 L

TOTE



275 GAL / 1040 L

TOTE



330 GAL / 1250 L



MILES LUBRICANTS LLC

Toll Free: 877 – 683 – 8086

Fax: 631 – 229 – 8000

www.MilesLubricants.com