



FOOD GRADE LUBRICANTS

Premium Synthetic Lubricants for the Food Manufacturing
& Processing Industry



ULTRACHEM INC
PREMIUM SYNTHETIC LUBRICANTS

Introduction

Ultrachem has developed a complete line of Omnilube® premium food grade lubricants for all food, beverage, pharmaceutical, and related industries. Selecting the correct food grade products to comply with governmental safety restrictions is a vital part of proper plant maintenance. With the Omnilube® line of premium food grade synthetics and white oils, performance is no longer sacrificed when converting to food grade products. These fluids are formulated with excellent anti-wear protection and oxidative stability that surpass other food grade products on the market and have outperformed many non-food grade lubricants in food processing applications. Utilizing the Omnilube® line of products will not only provide effective lubrication in your plant from top to bottom, but will also consolidate your product inventory which can result in significant savings. Omnilube® synthetic lubricants maximize machinery protection and efficiency while keeping your plant food grade compliant.

All Omnilube® food grade products are rated H-1 for incidental contact through NSF and have been Kosher approved.



Omnilube® 32/46, 68, 455: Long-life H-1 food grade compressor lubricants (PAO)

Omnilube 32/46, 68, and 455 are fully synthetic compressor oils formulated from the highest quality polyalphaolefin (PAO) base oils with a superior proprietary additive package to achieve long life. These long life compressor lubricants provide significantly improved wear, oxidation and lubricity over the currently available H-1 food grade synthetic oils allowing the service life to increase by 50% to 100%. Omnilube 32/46 and 68 are designed for rotary screw compressors and give a service life of 4,000 plus service hours in good operating conditions. Omnilube 455 is designed for reciprocating compressors.

PRODUCT	ISO GRADE	VISCOSITY@ 40°C/100°C	VISCOSITY INDEX	FLASH POINT °C/°F	POUR POINT °C/°F	SPECIFIC GRAVITY
Omnilube 32/46	32/46	38.8/7.3	156	240/464	-50/-58	0.85
Omnilube 68	68	59.7/9.8	150	240/464	-50/-58	0.87
Omnilube 455	100	98.7/14.0	145	240/464	-50/-58	0.85

Omnilube® 520, 546, 568, 5131, 640: H-1 Food grade compressor lubricants (PAO)

Omnilube 520, 546, 568, 5131, and 640 are fully synthetic food grade compressor oils that are formulated with the highest quality polyalphaolefin (PAO) base oils. Omnilube 5131 is suitable for use as an impregnating oil for powder metal sleeve bearings in small electric motors where food grade approvals are necessary. Omnilube 520, 546, and 568 are designed for rotary screw compressors and offer a service life of 2,000 to 4,000 hours under a wide range of temperatures under good operating conditions. Omnilube 5131 and 640 are designed for reciprocating compressors.

PRODUCT	ISO GRADE	VISCOSITY@ 40°C/100°C	VISCOSITY INDEX	FLASH POINT °C/°F	POUR POINT °C/°F	SPECIFIC GRAVITY
Omnilube 520	32	29.6/6.3	168	240/404	-68/-90	0.83
Omnilube 546	46	45.2/7.8	143	260/500	-48/-54	0.84
Omnilube 568	68	69.5/9.2	145	260/500	-48/-54	0.84
Omnilube 5131	100	108/10.5	145	260/500	-42/-44	0.84
Omnilube 640	150	138/16.0	145	260/500	-37/-35	0.84

Omnilube® FGH Series: H-1 Food grade hydraulic fluids (PAO)

Omnilube FGH 1000 Series are fully synthetic fluids blended from premium polyalphaolefin (PAO) base oils with superior additives that meet the requirements for demanding industrial hydraulic systems within the food industry. These NSF approved premium food grade hydraulic fluids are designed as multi-purpose to include a wide variety of industrial applications as well as hydraulic systems.

PRODUCT	ISO GRADE	VISCOSITY@ 40°C/100°C	VISCOSITY INDEX	FLASH POINT °C/°F	POUR POINT °C/°F	SPECIFIC GRAVITY
Omnilube FGH 1022	22	22/4.5	116	240/465	-60/-76	0.82
Omnilube FGH 1032	32	31.4/5.6	117	246/465	-57/-71	0.82
Omnilube FGH 1046	46	46/7.9	127	260/500	-48/-55	0.83
Omnilube FGH 1068	68	68.8/10.5	141	260/500	-48/-55	0.84
Omnilube FGH 1100	100	93.6/12.9	136	260/500	-42/-44	0.84
Omnilube FGH 1150	150	147/17.6	132	260/500	-37/-35	0.85

Omnilube® FGG 1000 Series: H-1 Synthetic food grade gear lubricants (PAO)

The Omnilube FGG series are fully synthetic food grade gear oils that are formulated from premium polyalphaolefins (PAO) base fluids. These NSF approved food grade gear oils are engineered to provide superior lubrication protection and include an extra additive to improve gasket and seal characteristics.

PRODUCT	ISO GRADE	VISCOSITY@ 40°C/100°C	VISCOSITY INDEX	FLASH POINT °C/°F	POUR POINT °C/°F	SPECIFIC GRAVITY
Omnilube FGG 1100	100	93.6/12.9	136	232/450	-60/-76	0.84
Omnilube FGG 1150	150	147/17.6	132	238/460	-57/-71	0.85
Omnilube FGG 1220	220	225.1/23.4	128	262/504	-48/-55	0.85
Omnilube FGH 1320	320	319/30.5	132	270/518	-48/-55	0.85
Omnilube FGH 1460	460	461/39.1	130	270/518	-42/-44	0.85
Omnilube FGH 1680	680	683/52	130	270/518	-37/-35	0.85

Omnilube® PC 100: H-1 Synthetic food grade chain lubricant (Ester)

Chemlube PC 100 is a synthetic ester lubricant designed for conveyor roller ball bearing chains, pin and roller chains, slides and gears operating in environments which contain high humidity such as a Proofer Box in bakeries.

PRODUCT	ISO GRADE	VISCOSITY@ 40°C/100°C	VISCOSITY INDEX	FLASH POINT °C/°F	POUR POINT °C/°F	SPECIFIC GRAVITY
Omnilube PC 100	100	99/10.1	77	263/505	-34/-29	0.96

Omnilube® FGC 3100: H-1 Synthetic food grade chain lubricant (PAO)

Omnilube FGC 3100 is a food-grade chain and sprocket oil formulated with tackifier to protect a wide variety of equipment. Omnilube FGC 3100 is a fully-formulated food-grade oil developed to meet FDA CFR 178.3570 and to meet the lubrication requirements of modern food-processing equipment. This oil is formulated with modern high performance antioxidants, anti-wear additives and rust inhibitors to meet the challenges of food-processing environments. This product provides extended lubrication change intervals and will extend equipment life.

PRODUCT	ISO GRADE	VISCOSITY@ 40°C/100°C	VISCOSITY INDEX	FLASH POINT °C/°F	POUR POINT °C/°F	SPECIFIC GRAVITY
Omnilube FGC 3100	100	100/8.5	130	238/460	-37/-35	0.85

Omnilube® PG FG Series: H-1 Synthetic food grade chain lubricants (PAG)

Omnilube PG 130 & 220 FG are fully synthetic chain lubricants formulated from premium polyalkylene glycol (PAG)-based oils. These NSF approved premium lubricants are designed for use on chains where excellent thermal stability and reduced deposits formation is required. PG-130 FG & PG 220 FG lubricants have much better load and wear properties over food grade H-1 white petroleum oils or PAO's.

For extreme high temperature applications, Omnilube PG 130 FG/AW & PG 220 FG/AW were designed with an enhanced high-temperature wear protection additives. The AW versions are also NSF approved.

PRODUCT	ISO GRADE	VISCOSITY@ 40°C/100°C	VISCOSITY INDEX	FLASH POINT °C/°F	POUR POINT °C/°F	SPECIFIC GRAVITY
Omnilube PG 130	100/150	130/22	198	264/507	-39/-38	0.99
Omnilube PG 130 AW	100/150	130/22	198	264/507	-39/-38	0.99
Omnilube PG 220	220	224.3/32.8	192	264/507	-29/-20	0.99
Omnilube PG 220 AW	220	224.3/32.8	192	264/507	-29/-20	0.99

Omnilube® HTC 220: H-1 High temperature synthetic chain lubricant (Ester)

Omnilube HTC 220 and HTC 220 AW are H-1 food grade ester-based synthetic chain lubricants designed for use on chains where excellent thermal stability and reduced deposit formation is desired. This proprietary formulation provides a combination of high flash point and low volatility for high temperature applications and also provides good low temperature performance. Omnilube HTC provides better load and wear properties than food grade H-1 white mineral oils or PAO based synthetics. Omnilube HTC and HTC AW chain lubricants meets all the requirements of FDA regulations CFR 178.3750.

PRODUCT	ISO GRADE	VISCOSITY@ 40°C/100°C	VISCOSITY INDEX	FLASH POINT °C/°F	POUR POINT °C/°F	SPECIFIC GRAVITY
Omnilube HTC 220	220	220/27.2	143	240/464	-20/-4	0.95
Omnilube HTC 220 AW	220	220/27.2	143	240/464	-20/-4	0.95

Omnilube® Airline FG: H-1 Synthetic food grade airline lubricant (PAO)

Omnilube Air Line FG is a fully synthetic food grade oil that is formulated with the highest quality polyalphaolefin (PAO) base oil to meet the lubrication requirements of air line equipment. This NSF approved lubricant is formulated with high performance antioxidants and anti-wear additives to meet the challenges of industrial environments. This product provides lubrication for all air line equipment used in food processing plants.

PRODUCT	ISO GRADE	VISCOSITY@ 40°C/100°C	VISCOSITY INDEX	FLASH POINT °C/°F	POUR POINT °C/°F	SPECIFIC GRAVITY
Omnilube Airline FG	32	32/4.0	100	190/374	-11/-12	0.86

Omnilube® HT Series: H-1 Synthetic food grade heat transfer fluid (PAO)

The Omnilube HT series are food grade heat transfer fluids formulated with USP grade white mineral oils. These colorless base oils are formulated with a combination of food grade antioxidants to give extended life at high temperatures. Omnilube HT 22, HT 32, HT 46 and HT 68 are designed for use in closed loop liquid phase heating systems. These NSF approved heat transfer fluids are non-corrosive to aluminum, steel, copper and brass.

PRODUCT	ISO GRADE	VISCOSITY@ 40°C/100°C	VISCOSITY INDEX	FLASH POINT °C/°F	POUR POINT °C/°F	SPECIFIC GRAVITY
Omnilube HT 22	22	21.8/4.9	156	192/378	-18/0	0.86
Omnilube HT 32	32	32.1/5.6	114	192/378	-12/10	0.86
Omnilube HT 46	46	45.5/6.9	106	192/378	-12/10	0.85
Omnilube HT 68	68	65.5/8.8	108	192/378	-12/10	0.85

Omnilube® WO SV Series: USP grade white oils (Mineral)

Omnilube WO SV 22 and 100 are highly refined, purified USP Grade white mineral oils that are colorless, odorless, and tasteless. These premium white oils fully comply with USP and FDA requirements as per 21 CFR 172.878. Omnilube WO SV 22 is comparable to Witco's Carnation, Penreco's Bakeol 7, Mallet's Exalube, Ultra lube, and D-lube products. Omnilube WO SV 100 is comparable to Puretol* Grade 55, Witco's Kadol, Penreco's Bakeol 35, Mallet's Prima lube and K-lube products. Omnilube WO SV products are registered 3H through NSF.

PRODUCT	ISO GRADE	VISCOSITY@ 40°C	VISCOSITY INDEX	FLASH POINT °C/°F	POUR POINT °C/°F	SPECIFIC GRAVITY
Omnilube SV 22	22	17.6-20.2	--	--	--	--
Omnilube SV 100	100	100-125	--	--	--	--

*Puretol is a registered trademark of Petro-Canada.

Omnilube® WO Hydraulic Series: Food grade hydraulic fluid (Mineral)

The Omnilube WO series are food grade hydraulic fluids that are formulated with USP grade white oils. These NSF approved food grade hydraulic fluids are engineered to meet the demanding requirements of severe hydraulic systems using high pressure and high output pumps.

PRODUCT	ISO GRADE	VISCOSITY@ 40°C/100°C	VISCOSITY INDEX	FLASH POINT °C/°F	POUR POINT °C/°F	SPECIFIC GRAVITY
Omnilube WO 12	12	12/3	93	180/356	-21/6	0.83
Omnilube WO 22	22	19.2/3.9	96	188/370	-18/0	0.87
Omnilube WO 32	32	31/5.1	87	221/430	-18/0	0.87
Omnilube WO 46	46	48/6.7	89	237/459	-16/3	0.88
Omnilube WO 68	68	68/9.0	106	260/500	-16/3	0.87
Omnilube WO 100	100	103/10.6	82	263/505	-12/10	0.88
Omnilube WO 150	150	164/14.7	87	263/505	-12/10	0.89

Omnilube® WO Gear Series: Food grade gear lubricants (Mineral)

The Omnilube WO series are food grade gear lubricants that are formulated with USP grade white oils. These NSF approved food grade gear lubricants are engineered to provide superior lubrication protection where food contact may occur.

PRODUCT	ISO GRADE	VISCOSITY@ 40°C/100°C	VISCOSITY INDEX	FLASH POINT °C/°F	POUR POINT °C/°F	SPECIFIC GRAVITY
Omnilube WO 80	68/100	77/9.6	100	220/428	-12/10	0.88
Omnilube WO 90	150/220	208/18.3	97	190/374	-10/14	0.88
Omnilube WO 85W-140	320	313.4/24.9	102	240/464	-12/10	0.88
Omnilube WO 140	460	368/28	103	190/374	-18/0	0.89
Omnilube WO 250	680	640/43.0	111	230/446	-6/21	0.90

Omnilube® WO Cooker Valve Oil: High temperature water resistant lubricant

Omnilube WO Cooker Valve Oil is designed for use in Cookers and Sterilizers where high temperatures and high humidity are present. Omnilube WO Cooker Valve Oil also provides protection for bearing, slides and operating valves.

PRODUCT	ISO GRADE	VISCOSITY@ 40°C/100°C	VISCOSITY INDEX	FLASH POINT °C/°F	POUR POINT °C/°F	SPECIFIC GRAVITY
Omnilube WO CVO	220	210/19.6	--	226/504	-35/-31	--

Omniclean FG: Food grade cleaner and system flush

Omniclean FG is a lubricating, flushing and cleansing oil that can be used in food, beverage and pharmaceutical processing plants in any area where there is a possibility of exposure of the lubricated machinery parts to edible products. It may be used along with the existing lubricant in order to clean equipment of carbonaceous debris, sludge and dirt without dismantling machinery. This leads to savings on labor, downtime and replacement parts costs.

PRODUCT	ISO GRADE	VISCOSITY@ 40°C/100°C	VISCOSITY INDEX	FLASH POINT °C/°F	POUR POINT °C/°F	SPECIFIC GRAVITY
Omniclean FG	--	8.1/2.37	110	105/221	-35/-37	<1

Omnilube® FGM Series: H-1 Synthetic food grade grease (PAO)

Omnilube FGM 00, 0, 1, and 2 are multi-purpose premium polyalphaolefin (PAO)-based greases designed for use in a wide variety of industrial applications where FDA/USDA regulations specify H-1 grease for “incidental food contact”. The Omnilube FGM Series of greases provide equipment protection and performance characteristics expected in premium quality synthetic grease. These premium greases provide long life, wide operating temperature range, very high load carrying capacity, excellent water washout, and anti-corrosion properties. These greases are designed for use in all types of food machinery, anti-friction bearings, low to medium speed industrial bearings, slide ways and enclosed gears. The Omnilube FGM series of greases out-perform other greases under wet conditions.

PRODUCT	NLGI GRADE	BASE OIL	BASE OIL VISCOSITY@40°C	THICKENER	DROP POINT °F	WORKED PENETRATION	SPECIFIC GRAVITY
Omnilube FGM 00	00	PAO	46	COMPLEX CALCIUM SULFONATE	570	400-430	0.89
Omnilube FGM 0	0	PAO	46	COMPLEX CALCIUM SULFONATE	570	355-385	0.89
Omnilube FGM 1	1	PAO	46	COMPLEX CALCIUM SULFONATE	570	310-340	0.89
Omnilube FGM 2	2	PAO	46	COMPLEX CALCIUM SULFONATE	570	265-295	0.89

Omnilube® H-1 Food Grade Aerosols

Ultrachem announces the introduction of Omnilube FGM 2 and Omnilube FGH1046 in new 12 ounce aerosol spray cans to compliment our line of synthetic food grade lubricants. These products meet all of the requirements of the USDA and FDA H-1 regulations, 21 CFR 178.3570, and conform to the requirements of NSF and are Kosher approved. They offer extended lubrication cycles, reduce wear and friction, and operate over a wide temperature range. The complete Omnilube line of oils for H-1 incidental food contact is available for compressor, hydraulic, gear and multipurpose applications.

Omnilube FGH 1046 Multi-Purpose Oil—Omnilube FGH 1046 is suitable for bearings, oven chains, canning applications, and valves in all segments of the food industry including baking, beverages, dairies, meat and poultry, pharmaceuticals or wherever a premium quality synthetic food grade oil is required. It is ideal on chains, slide ways and equipment surfaces.

Omnilube FGM 2 Grease—Omnilube FGM 2 multi-purpose NLGI#2 PAO based calcium complex sulfonate grease offers outstanding performance in a wide variety of applications including use in wheel bearings and as chassis lubrication. Benefits of this product include excellent heat and moisture resistance, a wide temperature range, high film strength, unusually superior water wash resistance, as well as resistance to alkalis and food acids, and reduced friction and wear.

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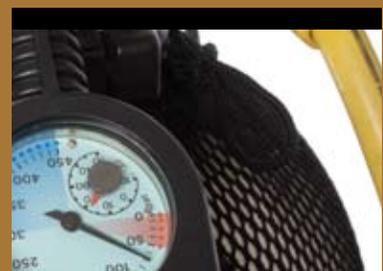
PREMIUM SYNTHETIC LUBRICANTS



IMPREGNATING OILS & GELS
Premium Lubrication for Stator Metal Bearings



GAS COMPRESSION LUBRICANTS
Premium Synthetic Lubricants for Gas Compression & Engine Application



HIGH PRESSURE COMPRESSOR LUBRICANTS
Premium Synthetic Lubricants for High Pressure Compressor Applications

