



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 government 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 to provide excellent anti-wear protection and oxidative stability that surpass competitive food processing lubricants. Utilizing the Omnilube® line of products will not only provide effective lubrication for 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 full 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 anti-wear, oxidation, stability, and lubricity over the currently available H-1 food grade oils allowing the service life to increase by 50% to 100%. Omnilube 32/46 and 68 are designed for rotary screw and rotary vane compressors and give a service life from 4,000 to over 6,000 service hours under 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 full synthetic food grade compressor oils that are formulated with the highest quality polyalphaolefin (PAO) base oils. 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 full 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 oils are designed as multi-purpose fluids to be applied in a wide variety of industrial equipment 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	31.4/4.6	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) (M)

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

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	-45/-55	0.85
Omnilube FGG 1320	320	319/30.5	132	270/518	-48/-55	0.85
Omnilube FGG 1460	460	461/39.1	130	270/518	-42/-44	0.85
Omnilube FGG 1680	680	683/52	130	270/518	-37/-35	0.85

Omnilube® FGH & FGG 2000 Series: Premium H-1 High-load food grade hydraulic and gear oils (M)

Omnilube FGH 2000 lubricants are full synthetics, blended from premium polyalphaolefin (PAO) base oils with greatly improved anti-wear oxidative stability and lubricity performance over currently available H-1 food grade synthetic hydraulic fluids. These FDA approved premium lubricants are blended with a proprietary additive package and are designed for **high temperature** and **high pressure** of industrial applications.

Omnilube FGG 2000 lubricants are designed as **severe load** food grade gear oils that are formulated from the highest quality polyalphaolefins (PAO) base fluids. These NSF approved H-1 lubricants are engineered to provide significantly improved anti-wear, oxidative stability and lubricity over other currently available H-1 food grade gear oils. These premium gear lubricants are designed with a proprietary additive package and base oil blend to give 50%-100% longer life than other synthetic H-1 lubricants. **FGG 2000 is often specified for gear boxes requiring EP fluids.**

Please contact **Ultrachem** or visit www.ultracheminc.com for the typical properties of these products along with extended information.

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

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 the high performance antioxidants and anti-wear additives to meet the challenges of industrial environments. This products provides lubrication for all type of 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	32/6.0	135	190/374	-11/12	0.86

Omnilube® PGG 220, 320, & 460 FG: Premium H-1 Synthetic Food Grade Gear Lubricants (PAG)

Omnilube PGG 220, 320 & 460 FG are high-temperature gear lubricants formulated from premium polyalkylene glycol (PAG)-based oils. These NSF approved H-1 severe load gear oils are engineered to provide significantly improved anti-wear oxidative stability and lubricity performance over currently available H-1 food grade PAO and mineral-based gear oils. These premium severe load gear lubricants are designed for use in enclosed gears, bearings, and where conditions demand the unique properties of these fluids. They may also be used in gas compression applications utilizing reciprocation, rotary screw, and centrifugal type compressors in operating conditions beyond the capabilities of other synthetic lubricants and mineral oils.

PRODUCT	ISO GRADE	VISCOSITY@ 40°C/100°C	VISCOSITY INDEX	FLASH POINT °C/°F	POUR POINT °C/°F	SPECIFIC GRAVITY
Omnilube PGG 220 FG	220	220/36.8	218	284/544	-40/-40	1.05
Omnilube PGG 320 FG	320	320/53.8	233	284/544	-40/-40	1.05
Omnilube PGG 460 FG	460	460/77.3	248	290/554	-33/-36	1.06

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

Omnilube FGC 3100 is a food-grade chain and sprocket oil formulated with tackifier to protect a wide variety of conveyor equipment. Omnilube FGC 3100 is a fully-formulated oil developed to meet the 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 oven chains where excellent thermal stability and reduced deposit formation is required. PG-130 & 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 enhanced high-temperature wear protection additives.

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

Omnilube® HT Series: H-1 Food grade heat transfer fluid (Mineral)

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 noncorrosive to aluminium, 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	20.8/4.9	156	192/378	-18/0	0.86
Omnilube HT 32	32	34/5.8	112	192/378	-12/10	0.86
Omnilube HT 46	46	47.3/7.2	112	192/378	-12/10	0.85
Omnilube HT 68	68	71/9.2	106	192/378	-12/10	0.85

Omnilube® WO SV Series: 3-H/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 Drakeol 35, Mallet's Prima lube, K-lube products. Omnilube products are registered 3H through NSF.

PRODUCT	ISO GRADE	VISCOSITY@ 40°C/100°C	VISCOSITY INDEX	FLASH POINT °C/°F	POUR POINT °C/°F	SPECIFIC GRAVITY
Omnilube SV 22	22	17.6-20.2	--	--	--	0.85
Omnilube SV 100	100	100-125	--	--	-20	0.86

Omnilube® WO Hydraulic Series: H-1 Food grade hydraulic fluid (Mineral) (M)

The Omnilube WO series are food grade hydraulic that are formulated with USP grade oils. These NSF approved food grade hydraulic fluids are engineered to meet the demanding requirements of hydraulic systems using moderate pressure and 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	20.8/4.2	96	210/410	-18/0	0.87
Omnilube WO 32	32	34/5.8	112	215/420	-18/0	0.87
Omnilube WO 46	46	47.3/7.2	112	232/450	-16/3	0.88
Omnilube WO 68	68	68/9.2	106	260/500	-16/3	0.87
Omnilube WO 100	100	103/11.8	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: H-1 Food grade gear lubricants (Mineral) (M)

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 incidental 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: H-1 High temperature water resistant lubricant (M)

Omnilube® WO Cooker Valve Oil designed for used in Cookers and Sterilizes 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 Cooker Valve Oil	220	210/19.6	--	226/504	-35/-31	--

Omniclean® FG: H-1 Food grade cleaner and system flush (M)

Omniclean FG is a flushing and cleansing oil that can be used in food, beverage, and pharmaceutical processing plants in a area where an H-1 rated cleaner is needed. It may be used in order to clean equipment of varnish, 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® FGM2: H-1 Synthetic food grade grease (PAO) (M)

Omnilube FGM2 is a multipurpose premium PAO-based grease designed for use in a wide variety of industrial applications where FDA/USDA regulations specify H-1 grease for incidental food contact. Omnilube FGM2 provides equipment protection and performance characteristics expected in premium quality synthetic grease.

Omnilube FGM2 provides long life, a wide operating temperature range, very high load carrying ability, excellent water washout and anti-corrosion properties. This grease is designed for use in all types of food machinery, anti-friction bearings, low to medium speed industrial bearings, slide ways and enclosed gears. Omnilube FGM2 will out perform other greases under wet conditions.



PRODUCT	NLGI GRADE	BASED OIL	BASE OIL VISCOSITY 40°C	THICKENER	DROP POINT °F	WORKED PENETRATION	SPECIFIC GRAVITY
Omnilube FGM2	2	PAO	46	COMPLEX CALCIUM SULFONATE	570	265-295	0.89

Omnilube® Food Grade Aerosols: H-1 Synthetic food grade (PAO) (M)

Ultrachem announces the introduction of Omnilube FGM 2 and Omnilube FGH 1046 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 ease of application, extended lubrication cycles, reduce wear and friction, and function over a wide temperature range.

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 whenever 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 sulfonate grease offers outstanding performance in a wide variety of applications including use in wheel bearings and in chassis lubrication. Benefits of this product include excellent heat and moisture resistance, a wide temperature range, high film strength, superior water wash resistance, superior resistance to alkalis and food acids, and reduced friction and wear.

Synthetic PD - FG Blower Oil: H-1 Premium Synthetic Food Grade Lubricant (PAO)

Synthetic PD-FG Blower Oil is formulated from premium polyalphaolefin (PAO) base fluids, optimized for use in positive displacement blowers and vacuum pumps. Custom blended to provide outstanding protection even in demanding operating conditions. Synthetic PD-FG Blower Oil is designed to withstand blower discharge temperatures up to 250°F. Formulated for maximum equipment life and minimal blower wear. Compatible with a wide variety of seal materials including: Teflon®, Fluorosilicone, polysulfide, polyacrylic, Viton®, Fluorocarbon and nitrile Buna-N. Registered NSF, H-1, and Kosher.

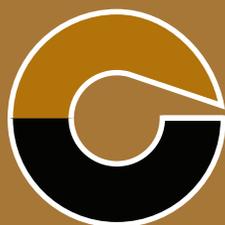
PRODUCT	ISO GRADE	VISCOSITY@ 40°C/100°C	VISCOSITY INDEX	FLASH POINT °C/°F	POUR POINT °C/°F	SPECIFIC GRAVITY
Synthetic PD-FG Blower Oil	220	225.1/23.4	128	262.504	-35/-31	0.85



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