

GEAR LUBRICATION

The demand for better Gear Oils has become more important as modern technology introduces gearboxes that require less oil volume, faster lubricant circulation times, and higher load carrying capabilities. Gear Oils therefore, need to,

- Reduce Friction and Wear despite higher loads and boundary lubricating conditions
- Withstand shock loads
- Resist oxidation tendencies in order to prolong service life



Our portfolio for Gear Lubrication presents a full-range for both enclosed gearboxes and open gear drives.

MINERAL-BASED, EXTREME PRESSURE GEAR OILS

The LUBERITE EP range is a CLP mineral-based lubricant containing Extreme Pressure (EP) additives required for modern, heavy-loaded gearboxes. Passing FZG stage 12, Luberite EP provides protection in case of boundary lubricating conditions, ensuring minimal friction and gear damage. For worm gears, especially those utilizing bronze wheels, our compounded LUBERITE WG series is the optimal choice as it does not attack yellow metals.

	ISO VG 150	ISO VG 220	ISO VG 320	ISO VG 460	ISO VG 680	WG ISO VG 390	WG ISO VG 700
Viscosity at 40 °C (cSt)	143.8	217.3	318.1	477.6	662.6	388	674.1
Viscosity Index	94	94	95	97	89	95	83
Flash Point (°C)	236	238	232	236	234	242	286

All available in 20 liter pails and 200 liter drums

POLYALPHAOLEFIN-BASED

Our Syngear 7000 series of synthetic PAO gear oils provide a higher performance level as compared to mineral oil-based fluids. It exhibits friction and wear protection even at elevated temperatures, and can withstand a significantly higher load condition, as exhibited by its 250 kg weld load rating on a 4-ball wear test. Furthermore, PAO's being of higher oxidation resistance, can extend gear oil service intervals.

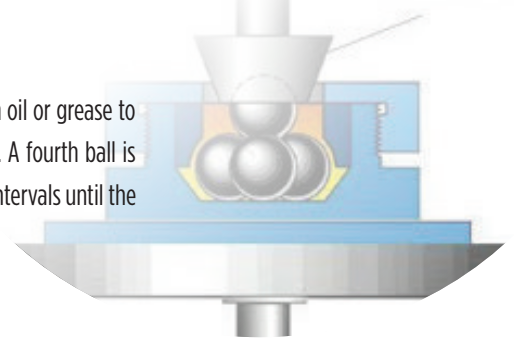
Syngear	7150	7220	7320	7460	7680
Viscosity at 40 °C (cSt)	154	219	319.1	466	659
Viscosity Index	153	159	156	157	164
Flash Point (°C)	248	259	239	247	240
Copper Corrosion	1A	1A	1A	1A	1A
4-Ball Weld Load, kgs	250	250	250	250	250
4-Ball Scar, mm	0.45	0.36	0.36	0.36	0.36
Timken Load Ok, lbs	35	50	50	50	50

All available in 18 liter pails and 208 liter drums



DID YOU KNOW that SYNTHETIC OILS, due to its high oxidation stability and anti-carbonization properties, can extend drain oil intervals by 3-4 times compared to Mineral Oils? Mineral Oils rapidly oxidize at 90 °C, and considering typical gearbox temperatures of above 80 °C, it is no wonder that Mineral Oils need to be drained within a short period of time. Synthetic Oils such as PAO, Esters, and Glycols, on the other hand, rapidly oxidize starting at 110 °C.

DID YOU KNOW that the 4-ball Weld Load Test is a reliable indicator of the ability of an oil or grease to withstand high loads? The 4-ball weld load test rig uses three steel balls held in a cup with the lubricant. A fourth ball is rotated against the three balls at a given speed. A starting load is applied and increased at pre-determined intervals until the rotating ball seizes and welds to the stationary balls.



POLYGLYCOL-BASED

The Syngear PG range of gear oils are formulated using high-quality Poly-Alkene Glycols, which provide low coefficients of friction necessary for the sliding friction conditions, as typically found on worm gear drives. The additive package in Syngear PG further ensures maximum compatibility with yellow and soft metals, as well as resistance to oxidation and carbonization. This range is also applicable for oil-lubricated systems for roller and ball bearings.

	ISO VG 150	ISO VG 220	ISO VG 320	ISO VG 460	ISO VG 680
Viscosity (ISO VG)	150	220	320	460	680
Viscosity Index	195	195	205	215	240
Flash Point (°C)	240	240	240	240	250
Copper Corrosion	1A	1A	1A	1A	1B
4 Ball Weld Load, kgs	230	230	250	250	250
4 Ball Scar, mm	0.35	0.35	0.32	0.32	0.33
FZG Stage	12 min.	12 min.	12 min.	12 min.	12 min.

All available in 18 liter pails and 208 liter drums

FOOD GRADE

All compliant with NSF's H1 rating, our Food Grade Gear Oils ensures safety for usage in food processing equipment. Available in white oil, PAO and PAG formulations.

	Base Oil	Viscosity (ISO VG)	Viscosity Index	Applications
Anderol PQ AA 150	White Oil	150	108	Gears, bearings, chains
Anderol PQ AA 220	White Oil	220	109	
Anderol PQ AA 320	White Oil	320	111	
Anderol PQ AA 460	White Oil	460	110	
Anderol PQ AA 680	White Oil	680	117	
Anderol 6150	PAO	150	133	Gears, bearings, chains, circulating oil systems operating at elevated temperatures and high loads
Anderol 6220	PAO	220	126	
Anderol 6320	PAO	320	138	
Anderol 6460	PAO	460	128	
Anderol 6680	PAO	680	133	
Syntech Food PG 320	PAG	320	252	
Syntech Food PG 460	PAG	460	262	
Syntech Food PG 680	PAG	680	272	

All available in 18 liter pails and 208 liter drums
Contact us for other viscosity requirements

OPEN GEAR LUBRICANTS

Open Gear Lubricants need to perform at a higher level compared to Gear Oils, since the lubricants are exposed to significantly higher loads, and subjected to the environment, water, dust and moisture. Consequently, our products are formulated to have strong adhesive properties, and displays a 4-ball weld load performance that exceeds industry standards. All lubricants do not contain any solvents, bitumen or asphalt.

	Penetration (NLGI #)	Base Oil	Base Oil Viscosity (cSt at 40°C)	Thickener	Solid Lubricants	4 ball weld load, kgs	Application
Tacbecon SOG 800	0	Highly refined mineral	800	Alassca complex	None	>800	Standard Grade - Sprayable
Tacbecon SOG 800 / 2	2	Highly refined mineral	800	Alassca complex	None	>800	Standard Grade for manual applications
Tacbecon SOG 3000	000	Semi-synthetic	3,000	Aluminum complex	graphite	>800	For bath systems, highly adherent
Tacbecon SOG 3000 A	00	Synthetic blend	3,000	Aluminum complex	graphite	>800	For spray systems, high adhesiveness
Tacbecon SOG 3000 B	0	Synthetic blend	3,000	Aluminum complex	graphite	>800	For spray systems, high adhesiveness
Syntech OGL-5*	N/A	Synthetic hydrocarbon	16,000 to 18,000	N/A	N/A	>800	For spray or bath, non-grease technology, transparent amber

Available in 18 kg pails and 180 kg drums
*Available in 205 liter drums only



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Also Available:

SPECIALTY LUBRICANTS AND GREASES

High and Low Temperature Greases
Chain and Wire Rope Lubricants
Open Gear Greases
Synthetic Gear, Compressor, Hydraulics Oils
Fire Resistant Hydraulic Fluids

METALWORKING FLUIDS

Die Casting, Forging, Stamping
Release Agents
Rust Preventives and VCI's
Cutting Oils and Coolants, Anti Rust

AUTOMATIC LUBRICATORS

OIL SKIMMERS