



Synthetic gear lubricants are based upon polyalkylene glycols technology

GEO SYN premium synthetic gear lubricants are based upon polyalkylene glycols technology. They are used for circulatory and bath lubrication of GEARS and BEARINGS, particularly in Charge mills and calendars working at high bulk oil temperatures and high pressure.

Extended oil-change intervals are possible in inaccessible gears and in worm gear.

They offer the following advantages compared with mineral lubricants Reduced frictional losses Better load-carrying properties and reduced wear Higher thermal stability; hence minimal formation of sludge and deposits Inherently higher viscosity index.

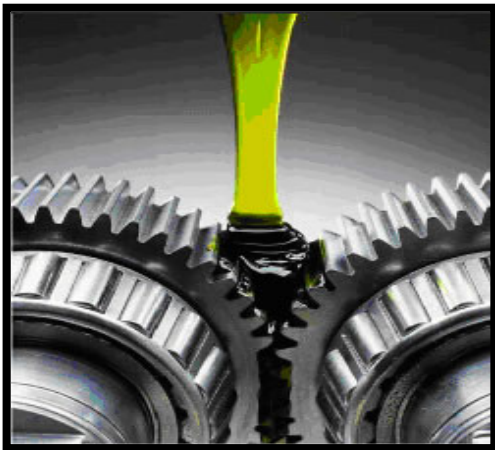
GEO SYN lubricants are specially suitable for the high-temperature lubrication of worm -gear units and bearings, where conditions of boundary lubrication tend to promote pitting and extended consequent rapid wear of bronze worm-wheels. These fluids allow drain intervals and some manufacturers employ them as fill-for-life lubricants.

▣ **GEO SYN 150** can operate at sump temperatures up to 180 °C in worm gear sets.

▣ **GEO SYN 220** and **460** are the preferred grades for lubricating the bearings of machines used in the manufacture of plastic film, since bearing temperatures may reach 180°C.

GEO SYN 220 is recommended by the following manufactures for use in their equipment:

► David Brown ► Bauer ► SEW Euro drive



		Units	68	100	150	220	320	460	680	1000
Density @ 15°C	ASTM D1298	Kg/l	0.89	0.90	1.03	1.04	1.05	1.06	1.07	1.08
Flash Point	ASTM D92	°C	280	280	290	290	291	291	298	300
Kin Viscosity @ 40°C	ASTM D445	cSt	65	96	165	240	335	495	690	1100
Kin Viscosity @ 100°C	ASTM D445	cSt	11	14	18	23	27	34	53	60
Viscosity Index	ASTM D2270	-	240	240	240	240	238	238	230	230
4-Ball Welding Load		kg	240	240	250	260	260	280	282	290
Timken OK Load		lb	240	240	250	260	260	280	282	290
Pour Point	ASTM D97	°C	-38	-37	-32	-39	-33	-32	-31	-31
FZG Gear Test (A/8.3/90°C)	IP 334		Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Rusting	ASTM D665B									