



## ELBAFOOD GH-1 SERIES

ELBA FG GEAR OILS SERIES are specially formulated to provide superior lubrication and high load carrying capacity. This water white oils provide outstanding anti-wear protection, are compounded to prevent rusting in the presence of moisture, are non-foaming and have rapid water separation characteristics. The high load carrying capacity and anti-wear compounding of ELBA FG GEAR OILS SERIES make them excellent candidates for food machinery gear cases. The USDA/NSF has approved FG GEAR OILS SERIES under their H-1 specification for incidental contact with food. All oils comply with FDA guidelines for food contact listed in CFR Title 21 Part 178, Section 178.3570. The products should be used "as is," without mixing with any other materials prior to use.

### Applications:

ELBA FG Gear Oils provide outstanding lubrication in all enclosed gears (worm, helical, bevel and spur) operating under normal or heavy shock-loading conditions. Because of their inherently low volatility, FG Gear Oils may be used in oil mist lubricating systems where specific mist control additives are not required. FG Gear Oils can also be used in bearings and chain drives, providing long service life and clean operation.

### Features and benefits:

- ▶ Outstanding resistance to oxidative breakdown.
- ▶ Keeps gear boxes free of sludge and varnish.
- ▶ Results in longer fluid life and reduced downtime.
- ▶ Protection from high temperatures.
- ▶ Long-term protection from rust and corrosion.
- ▶ Protects gears from moisture damage.
- ▶ Prevents the formation of emulsions that cause rust.
- ▶ Protects bronze and copper components.
- ▶ Excellent wear and extreme pressure protection.
- ▶ Prevents seizure & scuffing under shock loading.
- ▶ Improves load bearing.



### Physical Properties

Products	FG-150	FG-220	FG-320	FG-460	FG-680	FG-1000
ISO Grade	150	220	320	460	680	1000
Specific Gravity	0.875	0.878	0.880	0.883	0.883	0.8827
Viscosity						
@40°C, cSt	146	226	341	483	700	1001.3
@100°C, cSt	14.5	19.3	31.0	40.2	54.3	66.3
Viscosity Index	98	96	127	129	136	130
Flash Point, °F	445	445	445	445	460	480
(°C)	(229)	(229)	(229)	(229)	(238)	(249)
Fire Point, °F	485	480	485	485	490	540
(°C)	(252)	(249)	(252)	(252)	(254)	(282)
Pour Point, °F	0	-6	5	0	-6	-13
(°C)	(-18)	(-21)	(-15)	(-18)	(-21)	(-25)
FZG Gear Test	12+Pass	12+Pass	12+ Pass	12+Pass	12+Pass	12+Pass
NSF Registered	H1	H1	H1	H1	H1	H1
ISO 21469	Yes	Yes	Yes	Yes	-	-
Kosher	Yes	Yes	Yes	Yes	Yes	Pending
Halal	Yes	Yes	Yes	Yes	Yes	Pending

**Shelf Life:** Product shelf life is 3 years from the date of manufacture, after which the product should be recertified prior to use.