



GUARDSMAN FOOD MACHINERY GEAR OIL ISO 220-460-680

Product Description:

GUARDSMAN FM GEAR OILS are manufactured from a combination of high quality HVI food grade solvent-extracted dual hydrogenated paraffinic base oils and selected synthetic base oils. These are fortified with food grade anti-wear agents, rust & corrosion inhibitors, and foam inhibitors. Designed for use where H-1 gear oils are required.

Typical Uses:

- Worm gears on industrial equipment requiring food grade gear oils.
- Industrial bronze gears.
- Spiral bevel and double reduction gears.
- Moderately loaded industrial spur, herringbone, helical, and bevel gear sets.
- Flexible couplings.
- Can be used in applications both above and below the food line.
- Ideal for bearings and systems where contamination with water, citrus juice, or food may be held in suspension.
- For use in mist applications not requiring mist control.
- For use in rotary steamers and valves up to 149°C.
- Complies with 172.868 of title 21 of the Code of Federal Regulations. (FDA)

Features:

- Full film lubrication provided to protect gears.
- Provides rust and oxidation protection to internal gears and bearings.
- Foam resistance qualities provide longer gear and bearing life.
- Does not thin out at high temperatures.
- Compatible with other food grade gear oils.
- Crystal clear colour.
- No odour.
- Meets FZG Gear test requirements
- Certified Kosher and Pareve for Passover.
- **MPI** Approved C 15
- **NSF H-1** certified (excluding ISO 680)

Typical Properties

GRADE, ISO	220	460	680
Gravity, °API	32.7	28.5	28.4
Flash Point, °C (COC)	266	302	304
Fire Point, °C	277	313	316
Pour Point, °C	-9	-7	-7
Viscosity			
cSt @ 40°C	203.9	453.3	675
cSt @ 100°C	20.4	31.6	51.8
Viscosity Index	117	101	133
Colour, Saybolt	30+	30+	30+

Values shown here are typical and may vary.

