



## EP Gear Oils

STARFIRE EP Gear Oils are heavy-duty extreme-pressure industrial gear lubricants blended from highly refined bases stocks and extreme pressure (EP) additives, plus rust, oxidation, and foam inhibitors. The sulfur-phosphorous based EP additives provide increased film strength to offer excellent anti-friction and anti-wear capabilities.

STARFIRE EP Gear Oils are intended for use in industrial gear boxes, heavily loaded gears and spur, helical, bevel, and worm gear configurations subject to heavy or shock loading in industrial equipment. They can also be recommended for use in gear systems incorporated in cement mills, ball mills, crushers, hoists, winches, and marine equipment.

### APPLICATION

- AGMA: 9005-D94
- DIN: 51517 Part 3
- David Brown: S1.53.101
- FZG: Pass 12, Pass 13
- Cincinnati Machine: Appropriate Viscosity Grades
- U.S. Steel: 224
- API: GL-3 Extreme Pressure Gear Oils

### BENEFITS

- Provides a thick hydrodynamic film between gears
- Excellent film strength at high operating temperatures
- Full EP treatment for extreme pressure protection
- Heat transfer properties keeps gear sets cool
- Outstanding resistance to foaming

### TYPICAL PROPERTIES

TYPICAL PROPERTIES	EP 68	EP 100	EP 150	EP 220	EP 320	EP 460	EP 680
Pour Point, °C	-26.9	-28	-24.3	-22	-22	-24	-18
Viscosity: cSt @ 40°C	66.4	85.9	148.2	221.4	337.4	481.7	698
cSt @ 100°C	8.7	10.8	14.3	18.8	25.4	48	60.3
Viscosity Index	102.9	111	93.8	94.7	98.3	158	152
Density (lb/gal)	7.3	7.3	7.4	7.5	7.5	7.3	7.38
Color	2.6	4	3.4	5	7	5.5	5.5