



Product Application Sheet

76 Triton Syngear

SYNTHETIC EXTREME PRESSURE GEAR LUBRICANT

76 Triton Syngear is a 100% synthetic extreme pressure industrial gear lubricant. It is formulated to give performance exceeding AGMA 250.04 and U.S. Steel 224 requirements for enclosed gear drives. It is recommended for use in enclosed industrial gear sets with heavy tooth loads, high peak loads, intermittent shock loads, and extreme temperatures. It provides long life and added protection against deposit formation in high temperature applications. It also provides oxidation resistance that is superior to other polyalphaolefin (PAO) gear oils as tested in the U.S. Steel 200 oxidation test. This product meets the requirement for an AGMA EP gear lubricant.

TYPICAL APPLICATIONS

Enclosed industrial gear sets with heavy tooth loads, high peak loads, intermittent shock loads, and extreme temperatures.

Industrial applications specifying a mild extreme pressure lubricant.

Plain and rolling element bearings where loads are heavy, particularly where high peak or shock loads are encountered.

Gear drives and pinion stands found in metal rolling mills, ball mills, cement mills, paper mills, mining equipment, and some heavy construction and excavation equipment.

Chain drives, sprockets, plain and rolling element bearings, slide guides, and flexible couplings.

RECOMMENDED FOR:

AGMA 9005-D94
Cincinnati Machine P-35 (7EP), P-74 (5EP),
& P-77 (4EP)
David Brown S1.53.101
DIN 51517 Part 3 Antiwear Circulating Oils
U.S. Steel 224 Heavy-Duty Lead-Free EP
Gear Oil

OUTSTANDING FEATURES

- ◆ 100% synthetic gear lubricant
- ◆ Excellent thermal stability and oxidation resistance to minimize oxidative sludge and varnish formation
- ◆ Outstanding load-carrying capacity and protection against scuffing and wear
- ◆ Excellent oiliness characteristics to reduce friction and power consumption
- ◆ Excellent water separating characteristics
- ◆ Excellent low temperature properties
- ◆ Good rust and corrosion protection
- ◆ Non-corrosive to bronze or brass at normal operating temperatures (under 225°F)
- ◆ Excellent foam resistance
- ◆ Compatible with conventional mineral oil EP gear lubricants⁽¹⁾

⁽¹⁾ **Note:** For optimum performance, the mineral oil lubricant should be drained before using 76 Triton Syngear. Mixing products may reduce the effectiveness and advantages normally gained by using 76 Triton Syngear.

DESCRIPTION

76 Triton Syngear is formulated with synthetic polyalphaolefin (PAO) base oils and an advanced additive system to give performance exceeding AGMA 250.04 and U.S. Steel 224 requirements. The synthetic base oils have excellent thermal stability to minimize viscosity increase and deposit formation at elevated temperatures, plus excellent low temperature properties. Extreme pressure additives provide outstanding load-carrying capacity to protect gear teeth against scuffing and wear and to provide a greater safety margin during high peak and shock loads.

76 Triton Syngear has excellent oiliness characteristics, providing better lubrication and less power draw than many conventional gear lubricants. It also has excellent water separating characteristics to minimize problems from water contamination. This product is non-corrosive to steel or bronze under normal operating conditions. A foam inhibitor prevents excessive foam buildup that can interfere with proper lubrication.

TYPICAL INSPECTION TESTS:

Grade	4EP	5EP	7EP
Grade, AGMA	4S	5S	7S
Grade, ISO	150	220	460
Product Code	52920	52930	52940
Density, g/cm ³ @ 15°C	0.852	0.854	0.860
Color, ASTM	0.5	0.5	0.5
Flash Point, COC, °C (°F)	232 (450)	232 (450)	238 (460)
Pour Point, °C (°F)	-43 (-45)	-36 (-33)	-30 (-22)
Viscosity			
cSt @ 40°C	150	220	460
cSt @ 100°C	19.3	25.5	45.6
SUS @ 100°F	773	1,140	2,398
SUS @ 210°F	97.8	126	220
Viscosity Index	147	147	155
Copper Corrosion, ASTM D130	1B	1B	1B
Demulsibility, ASTM D14011, minutes to pass	20	20	35
Foam Test, ASTM D892	Pass	Pass	Pass
4-Ball Weld Load, kg	250	250	250
FZG Pass, Load Stage	12	12	12
Rust Test, ASTM D665A & B	Pass	Pass	Pass
Timken OK Load, lb	65	65	65
U.S. Steel 200 Tube Condition	Clean	Clean	Clean