



Product Application Sheet

76 Triton Syn-OG

SYNTHETIC OPEN GEAR LUBRICANT

76 Triton Syn-OG is an adhesive open gear lubricant manufactured from high molecular weight synthetic base oils. It is formulated with special extreme pressure additives to protect gears from scoring and galling under heavy or shock load conditions. It adheres well to metal surfaces and will not harden or flake off even at low temperatures. Since it does not contain any asphalt or residual stocks, this product eliminates the problems of reservoir buildup and distribution line plugging often encountered with conventional asphaltic-based open gear lubricants. In addition, it is environmentally friendly. It is solvent-free and does not contain any heavy metals or chlorinated compounds.

TYPICAL APPLICATIONS

Open and semi-enclosed gears found in ball and rod mills, cement mills, drying kilns, papermaking machinery, presses, power shovels, and similar equipment.

- Spur gears
- Helical gears
- Herringbone gears
- Bevel gears
- Rack and pinion gears

Industrial gear sets where heavy tooth loads, high peak loads, or intermittent shock loads exist.

Guides and sliding surfaces with large clearances where non-asphaltic lubricants are desired.

RECOMMENDED FOR:

AGMA 251.02 Standard for Lubrication of Industrial Open Gearing
Proposed AGMA 14S (Triton Syn-OG 3000)
Proposed AGMA 15S (Triton Syn-OG 4800)

OUTSTANDING FEATURES

- ◆ Excellent adhesion to metal surfaces
- ◆ Tenacious film will not harden or become brittle even at low temperatures
- ◆ Extreme pressure and antiwear properties for protection under heavy or shock loads
- ◆ Good resistance to water washout and corrosion
- ◆ Non-asphaltic formulation eliminates problems of reservoir buildup and distribution line plugging
- ◆ Environmentally friendly; does not contain solvent, heavy metals, or chlorinated compounds
- ◆ Especially suited for continuous dip lubrication systems where the lubricant is picked up from the reservoir or sump with an idler gear
- ◆ May be applied using automatic spray systems⁽¹⁾

⁽¹⁾ **Note:** For automatic spray systems, the distance between the pump and the spray nozzles should be minimized. This product should be maintained at a temperature of about 100°F for improved pumpability and sprayability, especially the 4800 grade. The 1000 and 3000 grades are recommended for use at low (~40°F) ambient temperatures.

DESCRIPTION

76 Triton Syn-OG is formulated with viscous, high quality synthetic polybutene base stocks and special extreme pressure additives. This unique formulation provides outstanding antiwear properties as well as excellent protection against heavy loads and shock loading conditions. This product adheres tenaciously to metal surfaces, providing a protective film that does not harden or become brittle, even at low temperatures.

76 Triton Syn-OG is ashless, solvent-free, and does not contain any heavy metals or chlorinated compounds. The base fluid is a synthetic polymer of exceptionally high purity. This product does not contain any chemicals listed on the Resource Conservation and Recovery Act (RCRA) list of toxic chemicals.

TYPICAL INSPECTION TESTS:

Grade	1000	3000	4800
Product Code	55030	55050	52860
Specific Gravity	0.900	0.910	0.914
Color, Visual	Dark Blue	Dark Blue	Dark Blue
Flash Point, COC, °C (°F)	202 (395)	212 (415)	216 (420)
Pour Point, °C (°F)	0 (32)	4 (39)	10 (50)
Viscosity			
cSt @ 40°C	6,100	24,000	38,000
cSt @ 100°C	205	609	979
SUS @ 100°F	34,300	128,900	209,330
SUS @ 210°F	1,000	2,850	4,800
Viscosity Index	117	159	193
Copper Corrosion, 3 hrs @ 100°C	1A	1A	1A
4-Ball EP Weld Load, kg	315	315	400
Timken OK Load, lb	60	60	60