

## PRODUCT DATA SHEET



**S-75 S-80 S-75/80 S-75/90  
S-80/90 S-90 S-90/140 S-140 S-250**

## GEAR OIL SERIES

### PRODUCT DESCRIPTION

Sentinel® Special Synthetic Gear Oils are multi-purpose specially compounded gear lubricants formulated to provide superior film strength and extreme pressure properties. They are truly anti-friction, anti-wear, anti-leak, anti-foam gear oils. Sentinel® Special Synthetic Gear Oils also surpass FZG stage 12, the highest rating that can be attained. They can be used as make-up and refill lubricants in all types of enclosed gear mechanisms, including spur, herringbone, spiral, bevel and hypoid. Sentinel® Gear Oil Series will also adequately meet and surpass requirements of heavy duty industrial transmissions and gear trains subject to high load and impact loads.

Sentinel® Special Synthetic Gear oils are formulated to greatly improve the viscosity temperature slope. In other words, they reduce the change in viscosity with increase in temperature under isothermal conditions. The non-Newtonian behavior of these lubricants have shown greater reduction in friction and wear due to maintaining greater film thickness on gear teeth, thereby reducing amperage consumption, as well as reducing frictional heat.

When severe rise in temperature is reached, these lubricants will carry greater loads because of the flatter viscosity temperature slope. The non-Newtonian as well as the non-foaming properties of these lubricants practically eliminate all leakage.

### PRODUCT ADVANTAGES

- Extended drain intervals
- Superior demulsibility
- Non-foaming
- Seal compatible
- Less downtime
- Reduced equipment operational problems
- Reduced maintenance costs
- Improved Safety
- Improved oil leakage
- Eliminates seasonal oil change
- Exceptional high temperature stability
- Improved Oxidation Stability
- Energy Conservation
- Cooler running

TO ORDER OR FOR ADDITIONAL INFORMATION

**QUALITY WITHOUT QUESTIONS!**

SENTINEL LUBRICANTS CORP.  
P.O. BOX 69-4240 MIAMI, FLORIDA 33269-1240  
15755 NW 15<sup>TH</sup> AVENUE MIAMI, FLORIDA 33169-5603  
PH.(305) 625-6400 (800)842-6400 FAX(305) 625-6565  
WWW.SENTINELSYNTHETIC.COM



**S-75 S-80 S-75/80 S-75/90**  
**S-80/90 S-90 S-90/140 S-140 S-250**  
**GEAR OIL SERIES**

**TYPICAL CHARACTERISTICS**

	<u>S-75</u>	<u>S-80</u>	<u>S-75/80</u>	<u>S-75/90</u>	<u>S-80/90</u>	<u>S-90</u>	<u>S-90/140</u>	<u>S-140</u>	<u>S-250</u>	<u>ASTM METHOD</u>
ISO Viscosity Grade	32	46	68	100	150	220	320	460	680	D- 2422
AGMA Lubricant Number		1EP	2EP	3EP	4EP	5EP	6EP	7EP	8EP	
Viscosity cSt @ 100°C	6	8	10	14	18	23	29	37	48	D- 445
@ 40°C	32	46	68	100	150	220	320	460	680	D- 445
Viscosity Index	133	146	131	142	124	124	124	124	124	D- 2270
Pour Point °C (°F)	-48(-55)	-46(-50)	-43(-45)	-40(-40)	-37(-35)	-34(-30)	-32(-25)	-29(-20)	-26(-15)	D- 97
Flash Point °C (°F)	231(448)	233(451)	236(457)	249(480)	250(482)	254(490)	270(518)	280(535)	280(535)	D- 92
Foam Sequence I, II, III	-----Pass-----									D- 892
Demulsibility 82°C	-----40/40/0(30)-----									D- 1401
Four Ball Wear, mm 40kg, 1200 rpm, 75°C (1hr)	-----34-----									D- 2266
Copper Corrosion 121°C(250°F), 3 hrs	-----1a-----									D- 130
Rust Test	-----Pass-----									D-665A&B
Gear Test, FZG, SPUR, Stage Pass	-----12+-----									
Timken OK Load kg/(lb)	-----45+(100)-----									D- 2509
USDA Rating	-----H-2-----									

TO ORDER OR FOR ADDITIONAL INFORMATION

**QUALITY WITHOUT QUESTIONS!**

SENTINEL LUBRICANTS CORP.  
P.O. BOX 69-4240 MIAMI, FLORIDA 33269-1240  
15755 NW 15<sup>TH</sup> AVENUE MIAMI, FLORIDA 33169-5603  
PH.(305) 625-6400 (800)842-6400 FAX(305) 625-6565  
WWW.SENTINELSYNTHETIC.COM