



ISO-9001 Registered Quality System.
ISO-21469 Compliant.

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PRODUCT DATA

LUBRIPLATE SPO LUBRICANTS

DESCRIPTION

LUBRIPLATE SPO Lubricants provide a tacky, superior lubricating film for high-sliding action in worm, bevel, helical and spur gears as well as machine ways, chains etc. This series of mineral oil based products will reduce friction and heat, thus improving efficiency. The anti-wear properties are compatible with brass, bronze and silver-alloy metals. They are excellent for areas of high moisture, heat and load found in many industries ranging from quarries and mills to food processing plants.

ADVANTAGES

- ⇒ Reduce friction, wear and lower operating temperatures, thus reducing power consumption and lowering maintenance costs.
- ⇒ Provide excellent oxidation and thermal stability which retards the formation of acidic contaminants, carbonaceous material and increased viscosities, thus extending fluid life.
- ⇒ Provide excellent demulsibility and filterability, thus allowing water and contaminants to be easily removed.
- ⇒ Provide an anti-wear, tacky, cohesive lubricant film protecting all metal surfaces against rust and corrosion and protects copper and copper alloys from chemical attack by contaminants.
- ⇒ Provides lubricant consolidation, e.g. one oil for gear boxes, bearings and ways.
- ⇒ Provide seal compatibility.

PERFORMANCE

SPO-288 has been field tested and approved by Cone Drive for double-enveloping worm gear applications. This is the only mineral oil approved that does not contain extreme pressure additives or acidless tallow.

SPO-277 passes the FZG 12 Stage Gear Oil Test.

SPO-266 provides exceptional wear protective qualities carrying a .41 mm wear factor on the 4-Ball Wear Test. (40 kg., 1 hr., 1200 rpm's, 167°F)

The "**SPO**" Series has proven very successful against synthetic gear oils by lowering temperatures, extending drain intervals, yet costing much less.

Typical Test Data – See Back

APPLICATIONS

LUBRIPLATE SPO Lubricants are specially designed for a wide variety of industrial applications such as gear cases, machine ways, chains and general purpose lubrication. These oils will provide a long-lasting wear resistant film that reduces friction and heat. The polar affinity of SPO protects metal surfaces from rust and corrosion as well as chemical corrosion. These oils have excellent demulsibility, oxidation resistance and thermal stability, thus extending lubricant life.

PACKAGING AVAILABLE

	<u>SPO-222</u>	<u>SPO-233</u>	<u>SPO-244</u>
Carton, 4/7 lb. Cans	L0242-007	L0243-007	L0244-007
Carton, 12/2 lb. Plastic Bottles	L0242-013	L0243-013	L0244-013
35 lb. Pail	L0242-035	L0243-035	L0244-035
120 lb. Quarter Size Drum	L0242-039	L0243-039	L0244-039
Full Size Drum	L0242-040	L0243-040	L0244-040

PACKAGING AVAILABLE

	<u>SPO-255</u>	<u>SPO-266</u>	<u>SPO-277</u>
Carton, 4/7 lb. Cans	L0245-007	L0246-007	L0247-007
Carton, 12/2 lb. Plastic Bottles	L0245-013	L0246-013	L0247-013
35 lb. Pail	L0245-035	L0246-035	L0247-035
120 lb. Quarter Size Drum	L0245-039	L0246-039	L0247-039
Full Size Drum	L0245-040	L0246-040	L0247-040

PACKAGING AVAILABLE

	<u>SPO-288</u>	<u>SPO-299</u>
Carton, 4/7 lb. Cans	L0248-007	L0249-007
Carton, 12/2 lb. Plastic Bottles	L0248-013	L0249-013
35 lb. Pail	L0248-035	L0249-035
120 lb. Quarter Size Drum	L0248-039	***
Full Size Drum	L0248-040	L0249-040

Typical tests for LUBRIPLATE SPO LUBRICANTS are as follows:

PROPERTY	TEST METHOD	TYPICAL RESULTS*			
		SPO-222	SPO-233	SPO-244	SPO-255
Viscosity SUS @ 100°F	ASTM D-2161	317	464	685	1044
Viscosity cSt @ 40°C	ASTM D-445	63	91	135	200
Viscosity SUS @ 210°F	ASTM D-2161	55	63	75	95
Viscosity cSt @ 100°C	ASTM D-445	9	11	14	19
Viscosity Index	ASTM D-2270	109	103	102	103
API Gravity	ASTM D-287	30.8	30.0	29.9	29.3
Color	ASTM D-1500	L-2	L-2.5	L-3	L-3
Flash Point	ASTM D-92	415°F/213°C	450°F/232°C	460°F/238°C	465°F/241°C
Fire Point	ASTM D-92	465°F/240°C	500°F/260°C	525°F/274°C	560°F/293°C
Pour Point	ASTM D-97	-30°F/-34°C	-35°F/-37°C	-25°F/-31°C	-10°F/-23°C
AGMA		2	3	4	5
ISO		68	100	150	220
PROPERTY	TEST METHOD	TYPICAL RESULTS*			
		SPO-266	SPO-277	SPO-288	SPO-299
Viscosity SUS @ 100°F	ASTM D-2161	1476	2260	3314	5050
Viscosity cSt @ 40°C	ASTM D-445	280	432	628	950
Viscosity SUS @ 210°F	ASTM D-2161	115	148	184	244
Viscosity cSt @ 100°C	ASTM D-445	23	30	38	50
Viscosity Index	ASTM D-2270	102	98	98	98
API Gravity	ASTM D-287	26.5	25.8	26.9	27.5
Color	ASTM D-1500	L-3.5	L-4	L-5.5	L-4.5
Flash Point	ASTM D-92	470°F/243°C	475°F/246°C	425°F/218°C	450°F/232°C
Fire Point	ASTM D-92	570°F/299°C	580°F/304°C	525°F/274°C	505°F/263°C
Pour Point	ASTM D-97	10°F/-12°C	15°F/-9°C	10°F/-12°C	10°F/-12°C
AGMA		6	7	8	8A
ISO		320	460	680	1000

*Values for typical results are for information only and can vary; these are not specifications.