

CARTER SP



LUBRICATION



TOTAL

High Performance, Synthetic (PAO) Based Industrial Gear Oils.

APPLICATIONS

Enclosed gears, bearings, and gear couplings.

- **CARTER SP** oils are premium quality, synthetic (PAO) industrial gear lubricants designed to provide excellent extreme pressure (EP) and load carrying properties. They were developed for enclosed industrial gears to provide optimum gear protection against scuffing under very severe conditions: bevel and spur gears, heavily loaded bearings, and gear couplings. They meet the viscosity requirements of ISO 68 to 1000.

SPECIFICATIONS

International Specifications

- AGMA 250.04
- DIN 51517 Part 3 - Group CLP
- AFNOR NFE 60.200 - Category CKD
- CINNCINATI MACHINE P-74 (ISO 220) and P-59 (ISO 320)
- US STEEL 224
- DAVID BROWN ET 33/80
- ISO 6743-6 Category CKD
- DIN 51502 - Group CLP

OEM's Specifications

ADVANTAGES

- Excellent extreme-pressure and anti-wear performances, remarkable protection of heavily loaded gear teeth.
- Compatibility with elastomers.
- Good oil-water separation behavior.
- Very good thermal stability ensuring a longer service life than conventional lubricants.
- Strengthened foaming protection. Good demulsification behavior.

TYPICAL CHARACTERISTICS	METHODS	CARTER SP							
		68	100	150	220	320	460	680	1000
AGMA Grade		2EP	3EP	4EP	5EP	6EP	7EJP	8EP	8A
Viscosity at 40°C, cSt	ASTM D 445	67.1	95.7	142.0	213.0	307.0	437.0	630.0	947.0
Viscosity at 100°C, cSt	ASTM D 445	9.9	12.9	17.3	23.2	30.2	37.4	49.6	66.2
Viscosity Index	ASTM D 2270	130	132	133	134	134	130	134	135
Density @ 60°F, lbs./gal.	ASTM D 1298	7.17	7.19	7.29	7.28	7.32	7.35	7.39	7.43
Specific Gravity @ 60/60 °F, lbs./gal.	ASTM D 1298	0.859	0.862	0.874	0.872	0.877	0.881	0.885	0.890
Pour Point, °F	ASTM D 97	-70	-60	-60	-45	-40	-35	-30	-20
Flash Point, COC, °F	ASTM D 92	445	445	445	430	425	435	416	400
Copper Strip Corrosion	ASTM D 130	1B	1B	1B	1B	1B	1B	1B	1B
Timken Load, lbs.	ASTM D 2782	65	65	65	65	65	70	70	70
FZG A/8.3/90, Fail Stage	DIN 51 354/2	> 13	> 13	> 13	> 13	> 13	> 13	> 13	> 13
4 Ball Weld Load, kg.	ASTM D 2783	200	200	315	315	315	315	315	400

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