



## Synthetic (PAO) High Performance Lubricant for Enclosed Gears

### APPLICATIONS

Heavily loaded gears in casings.

- **CARTER SH** oils are premium quality industrial gear lubricants designed to provide excellent extreme pressure (EP) and load carrying properties. They are oxidation stable and exhibit anti-rust / anti-corrosion, demulsibility, and anti-foam characteristics. They meet the viscosity requirements of ISO 150 to 1000.
- **CARTER SH** oils are formulated with new sulfur-phosphorus chemistry which provides improved anti-wear and friction reducing properties, which in turn cause gear sets to operate cooler and more efficiently.

### SPECIFICATIONS

#### International Specifications

- AGMA 9005 - D94 EP
- ISO 12925-1 CKD
- DIN 51517 Part 3 - Group CLP
- AISI 224
- AFNOR NFE 60.200 - Category CKC
- CINNCINATI MILACRON P-74 (ISO 220) and P-59 (ISO 320)
- US STEEL 224
- DAVID BROWN ET 33/80
- FLENDER
- Muller Weingarten

#### OEM's Specifications

### ADVANTAGES

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

TYPICAL CHARACTERISTICS	METHODS	CARTER SH					
		150	220	320	460	680	1000
AGMA Grade		4EP	5EP	6EP	7EJP	8EP	8A
Color	ASTM D 1500	7.0	7.0	7.0	7.0	7.5	8.0
Viscosity at 40°C, cSt	ASTM D 445	147	220	320	460	680	1000
Viscosity at 100°C, cSt	ASTM D 445	19.4	26.2	34.6	46.6	64.0	85.6
Viscosity Index	ASTM D 2270	150	152	155	160	165	169
Density @ 15C	ISO 3675	0.856	0.859	0.861	0.863	0.865	0.870
Pour Point, °F	ASTM D 97	-45	-45	-42	-30	-21	-18
Flash Point, COC, °C	ASTM D 92	235	237	233	231	237	229
Copper Strip Corrosion	ASTM D 130	1B	1B	1B	1B	1B	1B
FZG A/8.3/90	DIN 51 354/2	> 13	> 13	> 13	> 13	> 13	> 13
FZG Micropitting	FVA 54	--	10+	10+	10+	10+	10+
GFT Class		--	High	High	High	High	High

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