

CARTER EP



LUBRICATION



TOTAL

High Performance Lubricant for Enclosed Gears

APPLICATIONS

- **CARTER EP** 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 68 to 1000.
- **CARTER EP** 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 - F 16 Antiscuffing
- ISO 12925-1 CKSMP
- DIN 51517 Part 3 - Group CLP
- AIST 224
- AFNOR NFE 60.200 - Category CKC
- CINNCINATI MILACRON P-74 (ISO 220) and P-59 (ISO 320)
- JIS K2219.2006 (class 2)
- DAVID BROWN S1.53.101 E
- FLENDER AS 7300
- SEB 181226

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 EP						
		68	100	150	220	320	460	680
AGMA Grade		2EP	3EP	4EP	5EP	6EP	7EJP	8EP
Color	ASTM D 1500	4.5	5.5	7.0	7.0	7.0	7.0	7.5
Viscosity at 40°C, cSt	ASTM D 445	68	100	150	220	320	460	680
Viscosity at 100°C, cSt	ASTM D 445	8.7	11.8	14.8	18.5	23.7	29.9	34.5
Viscosity Index	ASTM D 2270	>95	>95	>95	>95	>95	>95	>95
Density @ 60 °F, lbs./g	ASTM D 1298	7.31	7.35	7.38	7.43	7.48	7.53	7.64
API Gravity		30.3	29.1	28.1	27.0	26.0	25.3	25.1
Pour Point, °F	ASTM D 97	5	5	5	5	5	5	10
Flash Point, COC, °F	ASTM D 92	450	470	490	500	530	530	500
Fire Point, COC, °F	ASTM D 92	480	500	520	530	560	560	530
Copper Strip Corrosion	ASTM D 130	1B	1B	1B	1B	1B	1B	1B
Timken Load, lbs.	ASTM D 2782	--	--	65	65	65	70	70
FZG A/8.3/90	DIN 51 354/2	14 Pass	14 Pass	14 Pass	14 Pass	14 Pass	14 Pass	12 Pass
FZG Micropitting	FVA 54	-	10+	10+	10+	10+	10+	10+
GFT Class		-	High	High	High	High	High	High
4 Ball Weld Load, daN	ASTM D 2783	250	-	-	250	--	--	--
4 Ball Wear, scar dia, n (1h/40kg/1200rpm/75°C)	NF T 48617	0.34	-	-	0.25	--	--	--

TOTAL Specialties USA, Inc.

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This lubricant must be applied as recommended and used for the application for which it was designed. TOTAL Specialties USA, Inc. will have no responsibility for any injury to persons or property resulting from misuse or misapplication of the lubricant. A safety data sheet conforming to the OSHA Hazard Communication Standard 29 CFR Section 1910.1200 can be downloaded at www.totalspecialties.com. Copyright 2016 All rights reserved.