

# Carter EP

## Mineral oil for enclosed gear drives

### APPLICATIONS

Carter EP has been specially designed for lubricating enclosed gear drives operating under severe conditions. These include:

- Bevel, spur, and worm gears
- Bearings and gear couplings.

Not compatible with PAG based lubricants.

### SPECIFICATIONS

- DIN 51517 Part 3 - CLP
- ISO 12925-1 category CKD/CKSMP
- AGMA 9005-F16 AS
- SEB 181226
- JIS K 2219:2006 (Class 2)
- Chinese GB 5903 L-CKD
- US STEEL 224

### ADVANTAGES

High quality extreme-pressure and anti-wear properties ensuring micro pitting protection.

Excellent resistance to oil oxidation and degradation.

Excellent seal compatibility.

Outstanding protection against rust and corrosion of copper alloys.

Excellent resistance to foaming and emulsion formation.

### APPROVALS

FLENDER

CMD GEARS

SEW

ZF

BONFIGLIOLI

DB SANTASALO

NORD GETRIEBE

ZOLLERN and many others

This lubricant used as recommended and for the application for which it has been designed does not present any particular risk. A material safety data sheet conforming to the regulations in use in the E.C. can be obtained from your local commercial advisor or downloaded at [ms-sds.totalenergies.com](http://ms-sds.totalenergies.com)

## TYPICAL CHARACTERISTICS

Properties	Units	Standards	Carter EP							
			68	100	150	220	320	460	680	1000
Density at 15 °C	kg/m <sup>3</sup>	ISO 3675	875	882	889	895	901	895	894	900
Viscosity at 40°C	mm <sup>2</sup> /s	ISO 3104	68	100	150	220	320	460	680	1000
Viscosity at 100°C	mm <sup>2</sup> /s	ISO 3104	8.9	11.3	14.7	19	24.3	34.3	45	43.5
Viscosity index	-	ISO 2909	106	98	97	97	97	113	112	80
Open cup Flash Point	°C	ISO 2592	228	222	238	244	248	256	224	244
Pour point	°C	ISO 3016	-33	-27	-24	-21	-15	-24	-24	-9
FZG A/8.3/90	Fail stage	DIN 51354/2	14 pass	14 pass	14 pass	14 pass	14 pass	14 pass	12 pass	12 pass
FZG Micro pitting GFT Class	Fail stage	FVA 54	-	10 high	10 high	10 high	10 high	10 high	10 high	10 high

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