

# CARTER EP 680



Lubrication



Mineral oils for enclosed gears.

## APPLICATIONS

Enclosed gears, bearings, couplings

- **CARTER EP** has been specially designed for lubricating enclosed gears operating under severe conditions:
  - bevel and spur gears
  - bearings and gear couplings
  - worm gears.

## SPECIFICATIONS

International specifications

Manufacturers

- DIN 51517 Part 3- CLP
- ISO 12925-1 CKD
- AGMA 9005 – E02 (EP)
- GB 5903-2011
- DAVID BROWN S1.53.101 E
- AIST 224
- SEB 181226
- JIS K2219:2006 (Class2)
- SIEMENS - FLENDER

## ADVANTAGES

- Excellent extreme-pressure and anti-wear properties.
- Good seal compatibility.
- Very good resistance to oil oxidation and degradation.
- Outstanding protection to rust and corrosion of copper alloys.
- Very good resistance to foaming and emulsion formation.

## HANDLING OPERATIONS - HEALTH - SAFETY

- **CAUTION:** not compatible with polyglycol base oils.

TYPICAL CHARACTERISTICS	METHODS	UNITS	CARTER EP 680
Density at 15 °C	ISO 3675	kg/m <sup>3</sup>	904
Viscosity at 40 °C	ISO 3104	mm <sup>2</sup> /s	680
Viscosity at 100 °C	ISO 3104	mm <sup>2</sup> /s	40.9
Viscosity index	ISO 2909		100
Open cup flash point	ISO 2592	°C	260
Pour point	ISO 3016	°C	- 12
FZG A/8,3/90 – A/16.6/90	DIN ISO 14635-1	Load stage	> 12
FZG - Micropitting	FVA 54/7	Damage load stage	> 10
FZG- Gft		Classification	High

The above characteristics are mean values given as an information.

TOTAL LUBRIFIANTS  
INDUSTRIE

25-09-2016 (supersedes 18-06-2015)

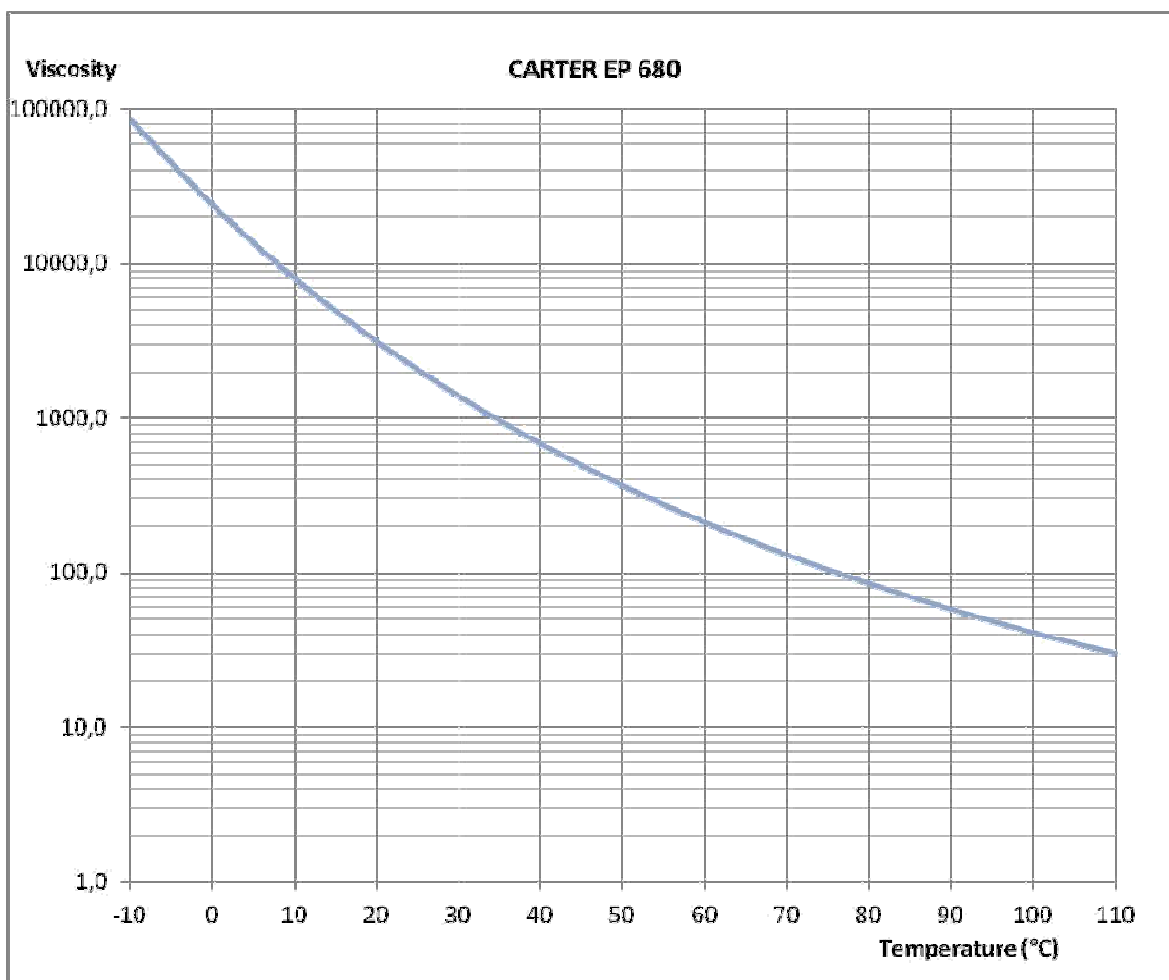
CARTER EP 680

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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 adviser or down loaded from [www.quick-fds.com](http://www.quick-fds.com).




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**TOTAL LUBRIFIANTS**  
**Industrie & Spécialités**  
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