

# Carter SG

## Synthetic lubricant (PAG) for enclosed gear drives

### APPLICATIONS

Worm drives, bevel, and spurs gears.

Lubrication of gear drives operating under severe conditions: high loads, high temperature peaks and corrosive atmospheres.

Non miscible with mineral oils.

### ADVANTAGES

Superior resistance to oxidation and high thermal stability leading to reduced maintenance downtime.

Very high natural viscosity index and superior low friction coefficient leading to energy savings.

Excellent level corrosion protection (tested with sea and acidic water).

Excellent extreme-pressure and anti-wear properties.

Very good foaming behavior.

### SPECIFICATIONS

DIN 51517 Part 3 - CLP

ISO 12925-1 category CKE

### APPROVALS

DANIELI

Meets the requirements of the main gearbox manufacturers.

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](https://ms-sds.totalenergies.com)

## TYPICAL CHARACTERISTICS

| Properties                                | Units              | Standards   | Carter SG                    |      |      |      |      |       |       |
|-------------------------------------------|--------------------|-------------|------------------------------|------|------|------|------|-------|-------|
|                                           |                    |             | 100                          | 150  | 220  | 320  | 460  | 680   | 1000  |
| Aspect – Color                            | -                  | Visual      | Translucent – Slightly amber |      |      |      |      |       |       |
| Density at 15 °C                          | kg/m <sup>3</sup>  | ISO 3675    | 1078                         | 1083 | 1093 | 1101 | 1110 | 1109  | 1109  |
| Viscosity at 40°C                         | mm <sup>2</sup> /s | ISO 3104    | 100                          | 150  | 220  | 320  | 460  | 680   | 1000  |
| Viscosity at 100°C                        | mm <sup>2</sup> /s | ISO 3104    | 18.2                         | 27.2 | 39.1 | 54.6 | 74.8 | 109.5 | 157.5 |
| Viscosity index                           | -                  | ISO 2909    | 209                          | 219  | 231  | 238  | 244  | 260   | 275   |
| Open cup Flash Point                      | °C                 | ISO 2592    | 246                          | 240  | 240  | 240  | 238  | 240   | 260   |
| Pour point                                | °C                 | ISO 3016    | -56                          | -35  | -30  | -30  | -30  | -30   | -31   |
| Oxidation stability – viscosity variation | %                  | ASTM D2893  | < 6                          |      |      |      |      |       |       |
| FZG A/8.3/90                              | Fail stage         | DIN 51354/2 | > 13                         |      |      |      |      |       |       |
| FAG Fe 8 Wearing - Roller                 | mg                 | DIN 51354-2 | < 30                         |      |      |      |      |       |       |
| FAG Fe 8 Wearing – Cage                   | mg                 | DIN 51819-3 | < 50                         |      |      |      |      |       |       |

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