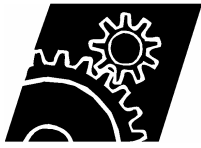


# CARTER SY WM 320



Lubrication



Synthetic oil (polyglycol) for enclosed gears.

## APPLICATIONS

### Enclosed gears

- Lubrication of worm gears and gears operating under the most severe conditions (high loads, extreme temperatures).
- The specific performances of this oil make it particularly suitable for use in the gearboxes of the wind Mill.

## SPECIFICATIONS

### International specifications

- DIN 51517 Part 3 ⇒ group CLP
- NF-ISO 6743-6 category CKS/CKT

### Manufacturers

- DAVID BROWN
- FLENDER

## ADVANTAGES

- High tolerance to contamination by water (water soluble).
- Very high viscosity index: mechanical shear stable.
- Low coefficient of friction: greater protection for non-ferrous parts, such as the bronze ring gear in worm gears systems, offering an energy saving of between 5 and 10% compared with a mineral oil.
- Excellent thermal stability: extended oil lifetime.
- Excellent extreme pressure and anti-wear properties: highly micropitting resistant (classification: high).
- Usable in the Food Industries.

## HANDLING OPERATIONS - HEALTH - SAFETY

- Oils based on POLYGLYCOLS, such as **CARTER SY WM**, are incompatible with most mineral and synthetic oils (PAO). Similarly, check compatibility with system components (seals and paint).

| TYPICAL CHARACTERISTICS               | METHODS    | UNITS              | CARTER SY WM 320 |
|---------------------------------------|------------|--------------------|------------------|
| Density at 15 °C                      | ISO 3675   | kg/m <sup>3</sup>  | 1062             |
| Viscosity at 40 °C                    | ISO 3104   | mm <sup>2</sup> /s | 320              |
| Viscosity at 100 °C                   | ISO 3104   | mm <sup>2</sup> /s | 58.5             |
| Viscosity index                       | ISO 2909   |                    | 252              |
| Open cup flash point                  | ISO 2592   | °C                 | > 275            |
| Pour point                            | ISO 3016   | °C                 | < - 30           |
| FZG Micropitting resistance           | FVA54/I-IV |                    |                  |
| - damage load stage                   |            |                    | 10               |
| - endurance test                      |            |                    | 10               |
| FZG test (A/8,3/90) damage load stage | DIN 51354  |                    | > 12             |

Above characteristics are mean values given as an information.

### TOTAL LUBRIFIANTS

#### Industrie & Spécialités

02-09-2003 (supersedes 14-03-2003 )

CARTER SY WM 320

1/1



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).