

# CARTER SH



Lubrication



Synthetic oil (PAO) for enclosed gears.

## APPLICATIONS

Enclosed gears, bearings,  
gear couplings

- **TOTAL CARTER SH** has been developed for enclosed industrial gears to provide optimum gear protection against micropitting and bearing protection against scuffing under very severe conditions.
  - bevel and spur gears
  - Heavily loaded bearings and gear couplings.

## SPECIFICATIONS

International specifications

Manufacturers

- DIN 51517 Part 3 ⇒ group CLP
- NF-ISO 6743-6 category CKD
- AISI 224
- CINCINNATI MILACRON
- DAVID BROWN
- FLENDER
- USINOR FT 161
- MÜLLER WEINGARTEN
- AGMA 9005 - E02

## ADVANTAGES

- Very high protection (high and low temperatures) from micropitting scuffing wear (GFT - class: high).
- Excellent extreme-pressure performance: protection against high loads.
- Very high natural viscosity index: (shear stable) and low friction coefficient.
- Very low pour point: operation at very low temperatures.
- Very good resistance to oxidation: operation at high temperatures, and lifetime increased by a factor of 2 to 4.
- Compatible with seals and metals containing copper.

## HANDLING OPERATIONS - HEALTH - SAFETY

- **CAUTION:** not compatible with oils based on polyglycols.

TYPICAL CHARACTERISTICS	METHODS	UNITS	CARTER SH					
			150	220	320	460	680	1000
Density at 15 °C	ISO 3675	kg/m <sup>3</sup>	856.5	859.7	861.7	863.3	864.9	869.5
Viscosity at 40 °C	ISO 3104	mm <sup>2</sup> /s	147.9	220.1	313.8	454.7	676.0	997.8
Viscosity at 100 °C	ISO 3104	mm <sup>2</sup> /s	19.4	26.2	34.6	46.0	64.0	85.6
Viscosity index	ISO 2909		150	152	155	160	165	169
Open cup flash point	ISO 2592	°C	235	237	233	231	237	229
FZG Micropitting	FVA 54 IIV	-	-	10 +	10 +	10 +	10 +	10 +
FZG A/8.3/90	DIN 51 354/2	-	> 13	> 13	> 13	> 13	> 13	> 13
Pour point	ISO 3016	°C	- 45	- 45	- 42	- 30	- 21	- 18

Above characteristics are mean values given as an information.

**TOTAL LUBRIFIANTS**  
**Industrie & Spécialités**  
 26-06-2006 (supersedes 06-04-2004)  
 CARTER SH  
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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).