

# CARTER SH



## Synthetic oils (PAO) for encased gears.

### APPLICATIONS

Encased gears, plain bearings, couplings

- CARTER SH** was developed to provide optimum protection of gears against micropitting and of bearings against wear at high and low temperatures.
- Parallel axis **cylindrical gears** (straight and helical cut).
  - **Heavy duty plain bearings and couplings.**
  - **Main reduction gear for ski-lifts, cable cars and funicular railways.**

### PERFORMANCE

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

### CUSTOMER BENEFITS

- Very high protection of gears against micropitting (GFT – class: High).
- Excellent extreme pressure performance: protection against seizures.
- Naturally very high viscosity index: (stable under mechanical shear) and reduced friction coefficient.
- Very low pour point: very low temperature functioning
- Very good oxidation stability: functioning at high temperatures and duty life multiplied a factor of 2 to 4.
- Neutral for seals and copper alloy metals.

### HANDLING HEALTH SAFETY

- **IMPORTANT:** not compatible with polyglycol based oils.

### CHARACTERISTICS

TYPICAL CHARACTERISTICS	METHODS	UNITS	CARTER SH					
			150	220	320	460	680	1000
Volumetric mass 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	676.8	997.8
Viscosity at 100°C	ISO 3104	mm <sup>2</sup> /s	19.4	26.2	34.6	46.6	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 Damage at	FVA 54 I IV	-	-	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	- 36	- 36	- 30	- 24	- 21	- 18

The values for the data given in this table are typical values given by way of information only

#### TOTAL LUBRIFIANTS

September 2005  
CARTER SH  
1/1



This lubricant, when used in accordance with our recommendations and for the application for which it is intended, carries to special hazard  
A safety data file conforming to the requirements of current EC legislation is available on [www.quick-fds.com](http://www.quick-fds.com) and from your local trade consultant.