

CARTAGO MULTIGRADO EP 80W90 & 85W140



GEARBOXES AND TRANSMISSIONS

Lubricants

Description

Extreme Pressure multigrade lubricant oil recommended for use in vehicle differentials or hypoid and helical transmissions, as well as Voith transmission final drives for trains and manual gearboxes requiring API GL-5 oil.

Properties

- Excellent capacity for withstanding peak loads and temperatures. Extreme Pressure (EP).
- Very good resistance to ageing.
- Excellent antirust and antifoam properties.
- Aids lubrication at low temperatures.
- As it is a multigrade oil it offers excellent protection in very severe temperature and use conditions.
- Offers a better response to manual gearbox synchronisation than a monograde oil thanks to its lower friction in gear cogs, particularly at low temperatures.
- Good antiwear properties, thus extending useful transmission life.

Quality levels

- API GL-5 (80W90 e 85W140)
- MB 235.0 (80W90)
- VOLVO 97310 (85W140)
- MAN 342 M1 (80W90)
- RENAULT Axles (80W90)
- ZF TE-ML 07A/08/16B/16C/17B/19B/21A (80W90)
- ZF TE-ML 07A/08/16C/16D/21A (85W140)
- VOITH TURBO 132.00374400 (ex 3.325-339) (80W90)
- DAF API GL-5 (80W90 e 85W140)
- MIL-L-2105 D (80W90 e 85W140)

Technical specifications

	UNIT	METHOD	VALUE	
SAE grade			80W90	85W140
Density at 15° C	g/mL	ASTM D 4052	0.899	0.914
Viscosity at 100° C	cSt	ASTM D 445	15.4	28.3
Viscosity at 40° C	cSt	ASTM D 445	140	400
Viscosity at -26° C	cP	ASTM D 2983	150.000 max.	-
Viscosity at -12° C	cP	ASTM D 2983	-	150.000 max.
Viscosity index	-	ASTM D 2270	105 min.	95 min.
Flash point, V/A	°C	ASTM D 92	170 min.	190 min.
Pour point	°C	ASTM D 97	-27	-18
FZG, Step 12		DIN 51354	Pass	Pass
4-Ball, ICD		ASTM D 2783	50 min.	50 min.

A safety data sheet is available on request.

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Technical data sheet for Lubricants. Revision 5. December 2015.