

GOLDENSTONE® EP SAE 80W-90/85W-90/85W-140

Technical Data Sheet (TDS)

MULTIGRADE AUTOMOTIVE GEAR OILS

Description and Application

Goldenstone® EP automotive gear oils are formulated with a special selection of high quality solvent refined and hydrotreated base stocks and an ashless sulfur phosphorus type additive package.

Oils are developed to lubricate all types of hypoid, spiral bevel, two-speed and final axle gear drives including worm gear drives in automotive vehicles and industrial applications, operating at severe and shock loads, and sliding velocities.

Goldenstone® EP automotive gear oils are recommended for manual transmissions, rear drive axles and hypoid final drives (differentials) that require API GL-5 EP quality level gear oils (equivalent for these viscosity grades to the obsolete USA MIL-L-2105C/D specification).

Benefits

- Especially wide temperature application range thanks to their very low pour point
- Excellent oxidation stability and enhance resistance to breakdown from heat
- Excellent protection for all gear drive components
- Dependable rust & corrosion protection
- Very good seal compatibility preventing oil leakages
- Excellent anti-wear, anti-scuffing and anti-seizure properties at a variety of speeds and loads

Specifications

	SAE 80W-90	SAE 85W-90	SAE 85W-140
API	GL-5		
ISO 6743/6	ISO-L-CKT		
MAN	342 Type M-1, 342 Type M-2	342 Type M-1, 342 Type M-2	342 Type M-1
ZF Specification	TE-ML 05A/07A /08/12E/ 16B/16C/ 17B/19B	TE-ML 05A/07A/ 08/12E/ 16B/16C/ 17B/19B	TE-ML 05A/07A/ 08/12E/ 16C/16D
Volvo	STD 1273.10		
MIL-L	2105D	-	2105D

Typical Characteristics

Parameter	Test Method	Typical Value		
		SAE 80W-90	SAE 85W-90	SAE 85W-140
Density at 20°C, g/ml	EN ISO 3675	0.891	0.900	0.903
Kinematic Viscosity at 100°C, mm ² /s	EN ISO 3104	14.5	17.0	24.5
Viscosity Index	ISO 2909	110	100	94
Flash point COC, °C	EN ISO 2592	210	220	226
Pour point, °C	ISO 3016	-30	-24	-21
Brookfield Viscosity - at minus 26°C, cP - at minus 12°C, cP	ASTM D 2983	130 000 -	- 68 000	- 90 000
Copper Strip Corrosion, rating	EN ISO 2160	1b		
FZG Test - Failure Load Stage	ASTM D 5182	12		

Important note: typical data values do not constitute a specification but are an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved.

Health, Safety and Handling

Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application. For more information about product MSDS, terms and conditions for storage and shelf life please visit: www.goldenstoneoils.com

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