



# AUTOMOTIVE GEAR OIL API: GL-5

## MINERAL: EXTREME PRESSURE

Magic Plus gear oil API: GL-5 is superior sulfur-phosphorus, extreme pressure gear lubricant formulated with premium quality base stocks, friction modifiers, and corrosion inhibitors, meeting the requirements of API GL-5 as well as many other manufacturer specifications. These oils are formulated to produce a superior gear lubricant with extreme pressure characteristics and thermal stability for automotive applications over a wide range of temperatures and heavy-duty conditions.

### Features & Benefits:

- Extreme pressure properties protect hypoid and other types of gears from scuffing and wear
- Efficient inhibitor package protects against rusting or corrosion of gear and bearing surfaces
- Maintains low temperature flow in the designed temperature range, resists oxidation and maintains oil film between gears
- High safety margin against foaming and corrosion
- Protects against oil seal deterioration

### Applications:

Recommended for use in spiral bevel and hypoid differentials, power dividers and transmissions requiring EP gear lubes under high speed, high load, high torque and high horse power conditions. Meets or exceeds the quality requirements of numerous vehicle manufacturers such as IVECO, MAN, SCANIA and VOLVO for heavy vehicles rear axles and final drive units.

### Specifications, Approvals & Recommendations: (Meets / Exceeds)

SAE Grade	SAE 90	SAE 140	80W-90	85W-90	80W-140	85W-140	75W-90
API	GL-5	GL-5	GL-5	GL-5	GL-5	GL-5	GL-5
MIL	MIL-L-2105D	MIL-L-2105D	MIL-L-2105D	MIL-L-2105D	MIL-L-2105D	MIL-L-2105D	MIL-L-2105D
MAN	342 M2	-	342 M2	342 M2	-	-	342 M2
ZF	12E/16B 16C/17B 19B/21A	16D	12E/16B 16C/17B 19B/21A	12E/16B 16C/17B 19B/21A	12E/16C 16D/21A	12E/16C 16D/21A	12E/16C 16C/17B/21A

### Technical Data:

Parameters	ASTM	Unit	Typical Results						
			SAE 90	SAE 140	80W-90	85W-90	80W-140	85W-140	75W-90
Viscosity Grade									
Viscosity @ 104 °F / 40 °C	D-7042	cSt	200	405.1	142	200	225	405	86.1
Viscosity @ 212 °F / 100 °C	D-7042	cSt	17.5	28.3	15.6	17.5	28.5	28.2	14.4
Viscosity Index	D-2270		96	97	114	96	165	96	174
Density @ 60 °F / 15 °C	D-4052	g/cm <sup>3</sup>	0.899	0.902	0.895	0.899	0.880	0.905	0.845
Flash Point (min)	D-92	°C	203	236	220	230	218	234	214
Pour Point (min)	D-97	°C	-9	-9	-27	-15	-27	-12	-42
Brookfield Viscosity, @ -40 °C	D-2893	mPa.s (cP)	-	-	90,000 (-26°C)	100,000 (-12°C)	110,000 (-12°C)	120,000 (-26°C)	135,000 (-40°C)

Prolonged and repeated contact with oil may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used oil into drains or the environment. Dispose to an authorized used oil collection point. This product is not likely to present any significant health or safety hazards when properly used in the recommended application and good standards of personal hygiene are maintained. For further Information on Safety Guidelines please refer to MSDS available on our website [magicplusoil.net](http://magicplusoil.net)

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