

Balmerol[®] HP 90 & 140

Automotive Gear Oil: API GL-4

Technical Data Sheet

Product Description:

Balmerol HP 90 &140 are superior performance automotive gear oils formulated from high quality basestocks and selective additive system. Balmerol HP 90 &140 oils are formulated for automotive transmissions, axles, final drives; having selective Extreme Pressure (EP) additives which provide protection against wear, scoring and also exhibits excellent oxidation stability, long service life.

Balmerol HP 90 &140 oils meet the following specifications:

- API service classification GL- 4
- IS : 1118 – 1992 - Reaffirmed 2001
- US Military MIL-L-2105
- UK Defence CS 3000A

Features & Benefits:

Very good EP properties

Enhanced protection of gears leading to longer component life

Excellent resistance to oxidation

Clean performance at high temperature operation and also ensuring higher oil drain interval

Applications / Recommendations:

Balmerol HP 90 & 140 are recommended for use in hypoid, spiral bevel or worm gear transmission systems of cars, buses, trucks, etc. requiring API GL-4 level performance.

Balmerol® HP 90 & 140

Automotive Gear Oil: API GL-4

Technical Data Sheet

Typical Properties:

Balmerol HP 90 & 140		
Properties	HP 90	HP 140
Meets or Exceeds following industry Specification		
API	GL -4	GL -4
SAE Viscosity Grade	90	140
Viscosity, ASTM D 445, cst @ 100°C	16.5 - 19	26 - 34
Viscosity Index, ASTM D 2270	90	90
Pour Point, °C ASTM D 97	- 18 max	- 9 max
Flash Point, °C ASTM D 92	190 minimum	190 minimum
Copper Strip Corrosion at 121°C , for 3hrs max , ASTM D 130	2 max	2 max
Foaming characteristics, quantity of foam after 10 minute settling time, ml max.		
a) At 24°C	Nil	Nil
b) At 93.5°C	Nil	Nil
c) At 24°C after testing at 93.5°C	Nil	Nil

Health and Safety:

Balmerol HP 90 &140 oils are not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. For MSDS please contact your local Balmer Lawrie Marketing / Technical Service team.

For Further Information, contact:

Balmer Lawrie & Co. Ltd.
SBU: Greases & Lubricants (G&L) Division
P- 43, Hide Road Extension
Kolkata: 700088
www.balmerlawrie.com