

Quality Grade of Automotive Gear Oil by American Petroleum Institute (API)

API GL-1

This grade of oil is used for lubrication of the helical bevel gears, the turbine rear axle and some manual transmission of the vehicles in moderate conditions of low flank pressure and sliding velocity. In this case, pure mineral oil can be used and the performance shall be satisfactory. Anti-oxidation agent, anti-rust agent, defoamer and depressant can improve the performance, but attrition improver and extreme pressure additive are not appropriate for use.

API GL-2

This grade of oil is used for lubrication of turbine rear axle of vehicle under the load, temperature and sliding velocity with which API GL-1 fails to deal.

API GL-3

This grade of oil is used for lubrication of manual transmission and medium load rear axle of spiral bevel gear working in rigorous situations. The carrying capacity of the lubricant is higher than that of API GL-2 but lower of API GL-4.

API GL-4

This grade of oil is used for lubrication of various gears in conditions of high speed/low torque and low speed/high torque, especially for low load hyperbolic gears used in vehicles and other devices for vehicles.

API GL-5

This grade of oil is used for lubrication of various gears in vehicles and other devices for vehicles in conditions of high speed and shock load, high speed/low torque and low speed/high torque, especially for rear axle of hyperbolic gears.