Petroleum products

Gear oil

Lubrication of loaded gear sets

SAE 85W-90 · API GL-5



Material illustration

Technical characteristics

Driveline gear oil SAE 85W-90 · API GL-5. SAE J306 provides the driveline viscosity scale and GL-5 denotes the gear lubricant service designation.

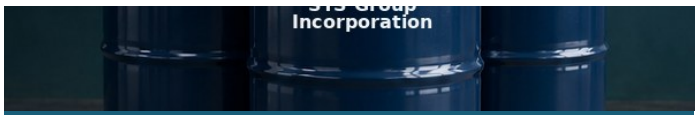
Property	Reference value	Method or source
Viscosity at 100 °C	**13.5 ≤ ν < 18.5 mm²/s**	SAE J306
Service category	**API GL-5**	API 1560
Maximum temperature at 150,000 mPa·s	**−12 °C**	SAE J306
Kinematic viscosity	**ASTM D445**	ASTM D445

The SAE J306 kinematic viscosity band at 100 °C is 13.5 ≤ ν < 18.5 mm²/s. The 85W prefix refers to low-temperature viscosity. Viscosity at 40 °C and pour point provide further comparisons.



Applications

For hypoid drive axles specifying API GL-5. Synchronised gearboxes and limited-slip differentials require separate compatibility checks.



Packaging and receipt

Packs suit individual service jobs and drums suit workshops with pump dispensing. IBCs or bulk delivery can be agreed for central stores. Each container is identified by fluid and lot.

For acceptance, check the agreed specification and the certificate of analysis (COA) for the delivered lot.