

CHALLENGER Gearbox Oil HDX 80W-90

Product Data Sheet



CHALLENGER Gearbox Oil HDX 80W-90 GL-5 is a multigrade automotive transmission lubricant developed for gears operating under the severe conditions in transmissions, axles, and final drives. It exceeds API GL-5 requirements and has a proven track record where extreme pressures and shock loadings are expected.

Benefits

- In-built anti-weld, anti-scuff, and EP properties ensure longer gearbox life.
- Features oxidation and thermal stability for deposit-free operation and long service life.
- Offers easy startability and effective lubrication at low temperatures.
- Compatible with automotive seals and gaskets, eliminating leaks.

Application

- Suitable for manual gearboxes and axles in passenger cars, commercial trucks requiring API GL-5 specification.
- Off-highway gearbox and axle applications in construction, mining, quarrying, and other sectors.
- Heavy-duty industrial and automotive applications where slow speed, high torque, heavy loads, shock loads & severe conditions are expected.

Performance Level

Meets/Exceeds:

- API GL-5
- ISO 12925-1 CKC/CKD
- US Steel 224
- IS 8406
- GB 5903-L- CKC/CKD

Product Characteristics

Properties	Units	Test Method	SAE 80W-90
Density at 15 °C	kg/L	ASTM D4052	0.8870
Viscosity at 40 °C	mm ² /s	ASTM D445	138.7
Viscosity at 100 °C	mm ² /s	ASTM D445	14.5
Viscosity Index	-	ASTM D2270	103
Flash Point, COC	°C	ASTM D92	244
Pour Point	°C	ASTM D97	-30
Product Code	-	-	306043

* Please refer to the product Safety Data Sheet (SDS) for health, safety, and handling information.

* Information, test methods, figures are typical and conform to specification; minor variation may occur.

* Refer Owner's Manual for the manufacturer's recommended performance level, viscosity grade and approval requirement.

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