



Universal 80W-90

Universal Fluid for manual transmissions and axles

Description

Castrol Universal 80W-90 is a multipurpose gear lubricant for use in both synchronised manual transmissions and final drives and differentials where either API GL-4 or API GL-5 are specified. Castrol Universal 80W-90 has viscosity temperature characteristics very close to 75w-90 gear oils. Castrol Universal 80W-90 has significantly better low temperature fluidity than conventional SAE 80W-90 gear oils. Castrol Universal 80W-90 replaced Castrol Multitrax. Careful formulation helps ensure better synchroniser performance than most GL-5 gear oils.

Application

Recommended for most transaxles that contain both helical and hypoid gears. Examples of vehicles with combined transmission and hypoid differentials where Castrol Universal 80W-90 is suitable include the following:

- Alfa Romeo - many manual models from 1975 up to approx. 1990
- Porsche - manual models up to approx. 200, except certain 924 model
- Subaru - manual models up to 2013
- Toyota - many 4WD's and selected passenger vehicles

Castrol Universal 80W-90 is recommended in place of conventional SAE 80W-90 GL-4 or 5 gear oils where improved cold shift is desired.

Suitable for use where GMH HN 2013 is cited.

Advantages

- A single product for transmissions and final drives reducing inventory and the potential for misapplication
- High temperature stability gives superior performance and extended drain potential.
- Optimised synchroniser performance gives smooth gear shifting at all temperatures.
- Excellent wear protection extends component life and reduces maintenance costs

Typical Characteristics

Name	Method	Units	Universal 80W-90
Appearance	Visual	-	Bright and Clear-
Viscosity, Kinematic 100C	ASTM D445	mm ² /s	15.1
Pour Point	ASTM D97	°C	-33
Viscosity, Brookfield @ -26C	ASTM D2983	mPa.s (cP)	20.000
Viscosity, Kinematic 40C	ASTM D445	mm ² /s	109
Viscosity Index	ASTM D2270	None	145

Product Performance Claims

API GL-4 / API GL-5

Removal

Bare Metal Surfaces: Remove with Castrol solvent cleaners or water based degreasers.
Hand Cleaning: Use any of the Castrol range of hand cleaners, e.g. CareClean Plus.
Other Surfaces: Contact the Castrol Technical Advice Line on 0800 10 40 60.

Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

Universal 80W-90

16 Dec 2014

Castrol, the Castrol logo and related marks are trademarks of Castrol Limited, used under licence.

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, to the extent that it is permissible by law to exclude warranties and representations, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Material Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. Refer to the MSDS, available from our website for further information. No responsibility is taken by either Castrol NZ, BP plc or its subsidiaries for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our local representative if you require any further information.

Castrol New Zealand Limited
Technical Advice Line 0800 10 40 60 Customer Service 0800 CASTROL (227 876)
www.castrol.co.nz www.msds.castrol.co.nz