

## Syntrax Universal 80W-90

Universal fluid for manual transmissions and axles

### Description

Castrol Syntrax Universal 80W-90 is a part-synthetic SAE 80W-90 multipurpose manual transmission and final drive lubricant. It is particularly recommended for use in highly loaded final drives and differentials of commercial vehicles where API GL-5 performance is required and it carries a number of approvals. Additionally it may be used in synchronised manual transmissions requiring API GL-4 or GL-5 fluids.

### 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.
- Proven performance as a problem solver in differentials operating in hot climates under arduous conditions.
- Optimised synchroniser performance gives smooth gear shifting at all temperatures.
- High shear stability maintains performance over the life of the lubricant.
- Excellent wear protection particularly at high temperatures extends component life and reduces maintenance costs

### Typical Characteristics

Name	Method	Units	Syntrax Universal 80W-90
Density @ 15C, Relative	ASTM D4052	g/ml	0.893
Viscosity, Kinematic 40C	ASTM D445	mm <sup>2</sup> /s	168
Viscosity, Kinematic 100C	ASTM D445	mm <sup>2</sup> /s	17.00
Viscosity Index	ASTM D2270	None	108
Viscosity, Brookfield @ -26C	ASTM D2983	mPa.s (cP)	120000
Pour Point	ASTM D97	°C	- 33
Flash Point, COC	ASTM D92	°C	214

## Product Performance Claims

API GL-4/GL-5

MAN 341 Typ Z2

MAN 342 Typ M2

MB-Approval 235.0

Scania STO 1:0

ZF -TE ML 02B, 05A, 12L, 12M, 16C, 17H, 19B, 21A

Recommended for use in Hino manual transmissions and differentials

## 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.

Syntrax Universal 80W-90

23 Jul 2019

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, 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. No responsibility is taken by either 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 (UK) Limited, PO BOX 354, Chertsey Road, Sunbury On Thames, Middlesex, TW16 9AW

Orders/Enquiries: 0345 6008125 Technical Enquiries: 0345 082 1719 BP (Ireland) Ireland Orders/Enquiries: 1850 930 3942 Ireland Technical Enquiries: 1800 509 353

[www.castrol.com/uk](http://www.castrol.com/uk)