



Product Data

Optitemp PU 035/4

High-temperature grease for highly loaded CV joints

Description

OPTITEMP™ PU 035/4 is a special grease for ball CV joints for lateral and longitudinal shaft applications, subjected to extreme thermal and mechanical loads. Universal application in different types of joints due to its excellent low and high-temperature behavior. By virtue of its optimum oil separating properties it is also suited for joints which cannot be sealed properly due to technical reasons.

Application

- Universal application in all kinds of joints • Use in joints which cannot be sealed properly.
- Also for the lubrication of shift linkages.
- Temperature range: - 35°C/- 31°F to + 160°C/+ 320°F

Advantages

- No decline of performance even at high component temperatures
- Excellent low-temperature behavior
- High load carrying capacity
- Reduces friction and wear
- Non-aging and shear-stable
- Extremely low oil separation
- OPTITEMP® PU 035/4 complies with the requirements of VW TL 52 133 for hightemperature greases for CV joints

Typical Characteristics

Name	Method	Units	Optitemp PU 035/4
Colour	Visual	-	black
Base oil	-	-	Semi-synthetic
Thickner type	-	-	Polyurea
Worked Penetration (60 strokes @ 25°C / 77°F)	ISO 2137 / ASTM D217	0.1 mm	290 - 320
Density @ 20°C / 68°F	ASTM D4052	kg/m ³	925
Base Oil Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm ² /s	100
Dropping point	ISO 2176 / ASTM D566	°C/°F	260/500
Water Resistance	DIN 51807-1	Rating	0
Rust Test - EMCOR (distilled water)	ISO 11007 / ASTM D6138	Rating	0
Flow pressure @ 20°C / 68°F	DIN 51805	mBar	85
Flow pressure @ -20°C / -4°F	DIN 51805	mBar	550
Flow pressure @ -35°C / -31°F	DIN 51805	mBar	1100
VW Oil Separation test (1 hr / 90°C)	P-VW-1423	% w t	3.8
Elastomer Compatibility - with DuPont CR 1234 (48hrs @ 130°C / 266°F)	ISO 1817	change in shore hardness / change in mass %	-8 / 9
Elastomer Compatibility - with DuPont CR 1234 (240hrs @ 110°C / 230°F)	ISO 1817	change in shore hardness / change in mass %	-8 / 8.5

Additional Information

- OPTITEMP® PU 035/4 is compatible with chloroprene rubber, CR (e.g. Neopren®) and polyetherester rubber (e.g. Hytel®).
- Mixing with other greases can lead to a decline in performance.
- Please observe the specifications of the automotive or joint manufacturers.

Optitemp PU 035/4

06 Aug 2012

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. 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 Industrial, Technology Centre , Whitchurch Hill , Pangbourne , Reading , RG8 7QR , United Kingdom

<http://msdspds.castrol.com>