



Product Data

Castrol Optitemp® HT 1 LF

Grease for CV Joints Subjected to Extremely
High Thermal and Mechanical Loads

Description

Castrol Optitemp HT 1 LF is a grease which has been designed for the most extreme loads in constant velocity ball joints. It features excellent high and low temperature behavior and due to its special additives guarantees a reduction of the coefficient of friction resulting in reduced fuel consumption and lowered temperatures in the joints. It is also recommended for the application with ventilated boots due to extremely low evaporation losses. The compatibility with boots made of commonly used materials is very good.

Application

- Application in homokinetic ball joints
- Vehicles which require „Fuel Economy“
- Joints subjected to extremely high mechanical and thermal loads
- Application at extreme temperatures (- 45°C/- 49°F):
 - - 45°C/- 49°F low temperature application
 - 160°C/320°F permanent temperature application
 - 180°C/356°F maximum temperature application

Advantages

- Wide temperature range
- Long service life
- Extremely low coefficients of friction
- Very good oxidation stability
- Optimum boot compatibility with CR and Hytrel
- “Fuel Economy“ (in extreme cases up to 0.15 l / 100 km)
- Lowering of joint temperatures generated by friction
- Extraordinarily low evaporation losses

Characteristics

	Unit	Value	Test Method
OPTITEMP	-	HT 1 LF	-
Article no.	-	08327	-
Color	-	black	visual
Base	-	polyurea/ fully synthetic	-
Worked penetration Pw 60	0.1 mm	310	DIN ISO 2137
Density @ 20°C/68°F	kg/m³	890	DIN 51757
Base oil viscosity @ 40°C/104°F	mm²/s	303	DIN 51562
Dropping point	°C °F	≥ 230 ≥ 446	DIN ISO 2176

Water resistance @ 90°C/194°F	-	0	DIN 51807 T. 1
Corrosion protection (SKF Emcor)	-	0	DIN 51802
Flow pressure @ 20°C/68°F @ - 20°C/- 4°F @ - 35°C/- 31°F	mbar	85 350 1400	DIN 51805
VW oil separation (1h/+ 90°C/+ 194°F)	%	< 4.0	-
Seal compatibility: Inepsa CR 4012 (168h/100°C/212°F): Change in hardness Change in volume	Shore %	+ 4 - 4	DIN 53505 DIN 53521

1 mm²/s \triangleq 1cSt

These technical data are based on average test results. Minor deviations may occur from case to case. Above data are based on extensive tests and practical experience. Considering the wide range of application requirements, they cannot, however, guarantee success in every single case. We therefore recommend practical trials. We reserve the right to change the product composition with a view to further improvement.

Health, safety and environmental information are provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures, together with environmental effects and disposal of used products. Castrol will not accept liability if the product is used other than in the manner or with the precautions or for the purpose(s) specified. Before using the product other than directed, please contact Castrol for consultation.

Additional Information

User Advice

Optitemp HT 1 LF is compatible with the elastomers chloroprene rubber (CR) and polyetherester rubber (Hytrel®).

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