



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 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

Typical Physical Characteristics

Test	Method	Unit	Value
CASTROL OPTITEMP	-	-	HT
Colour	visual	-	grey
Base	-	-	polyurea/ft
Worked penetration Pw 60	DIN ISO 2137	0.1 mm	3
Density at + 20°C/+ 68°F	DIN 51757	kg/m ³	8
Base oil viscosity at + 40°C/+ 104°F	DIN 51562	mm ² /s	3
Dropping point	DIN ISO 2176	°C	>
		°F	>
Water resistance at + 90°C/+ 194°F	DIN 51807 T. 1	-	
Corrosion protection (SKF Emcor)	DIN 51802	-	
Flow pressure at + 20°C/+ 68°F at - 20°C/- 4°F at - 35°C/- 31°F	DIN 51805	mbar	{
			3
			14
VW oil separation (1h/+ 90°C/+ 194°F)	-	%	<
Seal compatibility: Inepsa CR 4012 (168h/+ 100°C/+212°F): Change in hardness Change in volume	DIN 53505 DIN 53521	Shore %	+ -

1 mm²/s $\hat{=}$ 1cSt

Additional Information

CASTROL OPTITEMP HT 1 LF is compatible with the elastomers chloroprene rubber (CR) and polyetherester rubber (Hytrel)

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