

Castrol Optitemp Racing CBT

Low-friction, high-temperature grease for CV joints in racing applications

Description

OPTITEMP™ RACING CBT is a fully synthetic grease designed for extreme loads in all types of constant velocity joints. Due to its special ceramic additives it ensures extremely low coefficients of friction and applications at extreme temperatures. The product further reduces the temperature in the joint and improves the noise and vibration behavior (NVH). The compatibility with conventional boot materials is excellent.

Application

- Application in homokinetic ball and tripod joints (free from MoS₂)
- Suited for joints in side shafts and high-speed joints in propeller shafts
- Joints subjected to high mechanical and thermal loads
- Application at extreme temperatures:
 - 40°C low temperature
 - 160°C permanent temperature (in CV joints)
 - 200°C short-term peak temperature (in CV joints)
- At high sliding friction components

Advantages

- OPTITEC™ - CASTROL technology
- wide range of applications
- extremely wide temperature range
- high service life, excellent wear behavior
- very low coefficients of friction
- extreme reduction of the axial forces in the joint in racing applications
- good oxidation stability
- optimum boot compatibility with CR and Hytrel
- significant lowering of the operating temperatures
- low evaporation losses
- excellent emergency running properties at temperatures exceeding 200°C

Typical Characteristics

Test	Method	Unit	Value
CASTROL OPTITEMP RACING	-	-	CBT
Colour	visual	-	yellowish
Base	-	-	polyurea/fully synthetic
Worked penetration Pw 60	DIN ISO 2137	0.1 mm	290 - 320
Density at + 20°C/68°F	DIN 51757	kg/m ³	920
Base oil viscosity at + 40°C/+ 104°F at + 100°C/+ 212°F	DIN 51562	mm ² /s	259 28.7
Viscosity index	DIN ISO 2909	-	146
Dropping point	OHN 9	°C °F	> 230 > 446
Flow pressure at - 35°C/ - 31°F	DIN 51805	hPa	< 1600

1 mm²/s $\hat{=}$ 1cSt

Subject to usual manufacturing tolerances

Additional Information

OPTITEMP RACING CBT is compatible with the elastomers chloroprene rubber CR (e.g. Neopren™) and polyetherester rubber (e.g. Hytrel™)

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