



## Castrol Optitemp HT 2 Range

High-temperature Greases for Long-term Lubrication

### Description

Castrol OPTITEMP™ HT 2 and HT 2 EP are high performance greases for long-term lubrication of rolling and sliding bearings at high operating temperatures as well as at normal or medium bearing pressures. OPTITEMP HT 2 is light-colored. OPTITEMP HT 2 EP has a dark color due to the molybdenum disulphide contained in it. It features an even higher load bearing capacity and good emergency running properties.

### Application

- For thermally loaded rolling and sliding bearings such as fan bearings in the textile, wood, plastics and food industries as well as in stove furnaces of the automotive industry.
- For steam-heated calender or drying cylinder bearings.
- As sealing grease for labyrinth seals at high temperatures.
- For the application in slightly acidic or alkaline atmospheres.
- OPTITEMP HT 2 EP is especially suited for friction points subjected to increased loads or when special emergency running properties are required.

### Advantages

- OPTITEC® - OPTIMOL technology.
- Optimum wear protection in the high load range.
- Extremely good load bearing capacity.
- Especially aging and temperature-resistant.
- Structurally stable.
- Resistant to cold and hot water, limited resistance to alkalis and acids.
- Excellent corrosion protection.
- Pumpable in central lubrication systems.
- Temperature application range: - 20°C/- 4°F to + 160°C/+ 320°F. In case of life-lubricated bearings the temperature of + 150°C/+ 302°F under normal conditions should not be exceeded.  
Short-term operation at higher temperatures is possible - please consult our Technical Service.

## Typical Characteristics

Name	Method	Units	Optitemp HT 2	Optitemp HT 2 EP
Colour	Visual	-	Dark Yellow	Black
Thickner Type	-	-	Inorganic Thickener	Inorganic Thickener + MoS2
Worked Penetration (60 strokes @ 25°C / 77°F)	ISO 2137 / ASTM D217	0.1 mm	265 - 295	265 - 295
Worked Penetration (100,000 strokes @ 25°C / 77°F) - change from 60 strokes	ISO 2137 / ASTM D217	0.1 mm	50	50
Dropping Point	ISO 2176 / ASTM D566	°C / °F	None	None
Water Resistance	DIN 51807-1	Rating	0 (No Change)	0 (No Change)
Rust Test - EMCOR (distilled water)	ISO 11007 / ASTM D6138	Rating	0	0
Oxidation Stability - Rotating Pressure Vessel test (100hrs / 100°C / 212°F)	ASTM D942	pressure drop psi	5.8	5.8
Four Ball Wear test - Weld Load	DIN 51350-4A	N	1800	2600

Subject to usual manufacturing tolerances.

## Additional Information

- Please follow the bearing manufacturer's specifications.
- Do not mix OPTITEMP HT 2 and HT 2 EP with other lubricating greases. In case of doubt please consult the Technical Service.
- Thoroughly clean bearings before introducing the initial fill.
- Fill bearing housing only about half-full with OPTITEMP HT 2 or HT 2 EP

Castrol Optitemp HT 2 Range

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

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