



Product Data

Magna™ CT Range

Circulating oil

Description

Castrol Magna™ CT circulating oil range (previously called Magna™ HB Range) are based upon high quality solvent refined mineral oils carefully formulated with additives to provide good water separation as well as rust and oxidation protection.

Application

Magna CT Range circulating oils are intended for the lubricating of bearings produced by companies such as Morgan or Mesta. These oils meet or exceed:

- MORGOL Lubricant Specification Rev. 1.1 (27 Jan 2005)
- Association of Technicians of the Iron and Steel Industry – ATS 384-112

Used extensively for the bearing lubrication of steel rolling mills and other applications where high quality rust and oxidation inhibited circulating oils with excellent water separation properties are required.

The Magna CT Range is fully compatible with elastomer materials commonly used for static and dynamic seals, such as nitrile, silicone and fluorinated (e.g. Viton) polymers.

Advantages

- Good thermal and oxidative stability leads to longer operating life, reduction in lubricant costs and minimises deposit formation giving a cleaner system
- Excellent water separation and hydrolytic stability means reduced down time through prolonged lubricant life and increased equipment reliability

Typical Characteristics

Name	Method	Units	CT 150	CT 220	CT 320	CT 460	CT 680
ISO Viscosity Grade	-	-	150	220	320	460	680
Density @ 15°C / 59°F	ISO 12185 / ASTM D4052	kg/m ³	885	889	894	899	897
Kinematic Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm ² /s	150	220	320	460	680
Kinematic Viscosity @ 100°C / 212°F	ISO 3104 / ASTM D445	mm ² /s	14.5	18.5	23.5	29.4	41.0
Viscosity Index	ISO 2909 / ASTM D2270	-	94	93	92	91	>95
Pour Point	ISO 3016 / ASTM D97	°C/°F	-12/10	-12/10	-12/10	-12/10	-9/16
Foam Sequence I - tendency / stability	ISO 6247 / ASTM D892	ml/ml	0/0	0/0	0/0	0/0	0/0
Flash Point - open cup method	ISO 2592 / ASTM D92	°C/°F	270/518	292/558	294/561	298/568	262/504
Water Separation @ 82°C / 180°F (40/37/3)	ISO 6614 / ASTM D1401	min	10	15	15	15	20
Copper corrosion (3 hrs@100°C/212°F)	ISO 2160 / ASTM D130	Rating	1b	1b	1b	1b	1b
Rust test - distilled water (24 hrs)	ISO 7120 / ASTM D665A	Rating	Pass	Pass	Pass	Pass	Pass
Rust test - synthetic seawater (24 hrs)	ISO 7120 / ASTM D665B	Rating	Pass	Pass	Pass	Pass	Pass

Subject to usual manufacturing tolerances.

Additional Information

MORGOIL is a trademark of Morgan Construction Company

This product was previously called The Magna HB Range. The name was changed in 2015.

Magna™ CT Range

29 May 2015

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>