

Alpha BMB

CLPF Type Gear Oils

Description

The Castrol Alpha™ BMB series are high-performance gear oils containing solid lubricant additive (Molybdenum Disulphide). They fulfill the requirements of the DIN 51517-3 specification and qualify as 'CLPF type' gear oils in accordance with DIN 51502 requirements. The Molybdenum Disulphide additive is carefully selected to be compatible with the base oils and other additives, ensuring that a stable suspension can be achieved to deliver the highest load carrying efficiency over a broad load range.

Application

The Alpha BMB series are designed for use in low-speed heavy drives and in applications where shocks laods can occur. The Alpha BMB series of gear oils are compatible with non-ferrous metals and commonly used seal materials. They also deliver a high thermal loading capacity, good ageing stability and excellent protection against corrosion.

Advantages

- Very high shock and load carrying.
- Good resitance to ageing
- High resistance to corrosion

Typical Characteristics

Name	Method	Units	Alpha BMB 220	Alpha BMB 320	Alpha BMB 680
Colour	Visual	-	Black	Black	Black
Density @ 15°C / 59°F	ISO 12185 / ASTM D4052	kg/m³	893	895	902
Kinematic Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm²/s	220	320	680
Kinematic Viscosity @ 100°C / 212°F	ISO 3104 / ASTM D445	mm²/s	19	23.8	38.7
Viscosity Index	ISO 2909 / ASTM D2270	-	90	94	94
Flash Point - open cup method	ISO 2592 / ASTM D92	°C/°F	230/446	268/514	284/543
Pour Point	ISO 3016 / ASTM D97	°C/°F	-15/+5	-12/+10	-6/+21
Acid Number	ISO 6618 / ASTM D974	mg KOH/g	0.32	0.32	0.32
Sludging and Corrosion - TOST 1000 hour	ASTM D4310	TAN increase (mg KOH/g)	<2.0	<2.0	<2.0
Rust test - distilled w ater (24 hrs)	ISO 7120 / ASTM D665A	Rating	Pass	Pass	Pass
Rust test - synthetic seaw ater (24 hrs)	ISO 7120 / ASTM D665B	Rating	Pass	Pass	Pass
Copper corrosion (24 hrs@100°C/ 212°F)	ISO 2160 / ASTM D130	Rating	1	1	1
FZG Gear Scuffing test - A/8.3/90	ISO 14635-1	Failure Load Stage	>12	>12	>12
FZG Gear Scuffing test - A/16.6/140	ISO 14635-1 (modified)	Failure Load Stage	>12	>12	>12
Foam Sequence I - tendency / stability	ISO 6247 / ASTM D892	ml/ml	<50/0	<50/0	<50/0

Subject to usual manufacturing tolerances.

Alpha BMB 26 Oct 2023

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