

Technical Data Sheet

Texol Gearsyn™ BM Extra Series

High performance gear oils based on mineral oil with MoS₂

Product Description

Texol Gearsyn™ BM Extra are solid-free performance gear oils.

Wear problems such as abrasion, surface fatigue (pitting), grey staining or problems during the running-in phase are solved. Compatible with non-ferrous metals. The additive combination adjusts itself to changing loads and actively prevents wear. Texol Gearsyn™ BM Extra gear oils are in conformity with an even exceed the requirements of DIN 51517 part 3 CLP.

Applications

- Long-term lubrication under the most extreme mechanical conditions, vibrations and elevated temperatures
- Spur and bevel gears, worm gears up to the medium load range
- All types of Rolling and sliding bearings
- Gear-tooth couplings and joints
- Highly loaded sliding surfaces
- Circulation and hydraulic systems

Advantages

- Extra ordinary load carrying capacity
- Optimum wear protection up to the highest load ranges
- Maximum reliability against grey staining
- Reduction of the coefficient of friction and temperature
- Improvement of surface even when damage by micro smoothing effect
- Significantly shorter running in period
- High corrosion protection
- Free from solids due to oil soluble additive combination
- Extended oil change intervals even under extreme conditions
- Longer service life of gears
- Reduced energy, maintenance and disposal costs
- It features a high content of solid lubricants (MoS₂).

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Typical Properties

Property (Unit)	BME10	BME15	BME22	BME32	BME46	BME68	Method
Density at +15 °C	855	857	863	870	875	885	DIN 51757
Viscosity @40°C, cSt	10	15	22.8	32	45.9	68	DIN 51550
Viscosity @100°C, cSt	2.6	3.8	4.3	5.05	7.45	8.7	DIN 51550
ISO Viscosity Grade	10	15	22	32	46	68	DIN 51519
Viscosity Index	135	131	125	123	123	120	DIN ISO 2909
Flash Point, °C	210	215	218	220	225	228	DIN ISO 2592
Pour Point, °C	-34	-32	-30	-28	-25	-24	DIN ISO 3016
Four ball weld load, N	1400	1400	1400	1500	1500	1500	DIN 51350-02
Four ball wear test, mm	0.55						DIN 51350-03
FZG test (A/8.3/90)	>14						DIN 51354

Property (Unit)	BME100	BME150	BME220	BME320	BME460	BME680	Method
Density at +15 °C	893	897	905	915	920	930	DIN 51757
Viscosity @40°C, cSt	105	150	233	338	490	680	DIN 51550
Viscosity @100°C, cSt	11.5	14.8	19.1	26	32.3	41	DIN 51550
ISO Viscosity Grade	100	150	220	320	460	680	DIN 51519
Viscosity Index	118	118	115	113	113	110	DIN ISO 2909
Flash Point, °C	230	230	235	240	240	250	DIN ISO 2592
Pour Point, °C	-21	-21	-18	-18	-17	-15	DIN ISO 3016
Four ball weld load, N	1700	1700	1700	1900	1900	1900	DIN 51350-02
Four ball wear test, mm	0.55						DIN 51350-03
FZG test (A/8.3/90)	>14						DIN 51354

Property (Unit)	BME1000	BME1500	BME2000	BME3000	BME5000	Method
Density at +15 °C	935	938	940	942	950	DIN 51757
Viscosity @40°C, cSt	995	1495	1980	2900	4465	DIN 51550
Viscosity @100°C, cSt	48	72	98	123	168	DIN 51550
ISO Viscosity Grade	1000	1500	2000	3000	5000	DIN 51519
Viscosity Index	120	123	128	135	142	DIN ISO 2909
Flash Point, °C	252	260	260	240	228	DIN ISO 2592
Pour Point, °C	-12	-10	-8	-8	-6	DIN ISO 3016
Four ball weld load, N	2000	2000	2200	2200	2200	DIN 51350-02
Four ball wear test, mm	0.60					DIN 51350-03
FZG test (A/8.3/90)	>14					DIN 51354

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Notes for Use

- Condensation water may be absorbed without the danger of corrosion or a change in viscosity.
- Texol Gearsyn™ BM Extra lubricants are compatible with seals, e.g. NBR, FPM.
- They are compatible with nearly all conventional one-component and two-component lacquers.
- Quality standard: Texol Gearsyn™ BM Extra lubricants are CLP oils and exceed the minimum requirements according to DIN 51517 for part 3 CLP gear oils.