

Balmerol[®] Biolube Plus Series

High Performance Synthetic Gear Oil

Technical Data Sheet

Product Description:

Balmerol Biolube Plus Series is high performance, **Eco-friendly and Biodegradable** lubricant for enclosed gears operating at high temperature. It is formulated with a specially designed synthetic organic esters and Extreme Pressure (EP) / Anti Wear (AW) additives to provide very high load carrying ability, with extremely good adhesive properties. Balmerol Biolube Plus Series provide full film lubrication and stick to the metallic surfaces.

Balmerol Biolube Plus Series is free from any mineral oil, solid lubricants and chlorinated compounds. The product is mineral oil resistant, seal compatible and does not attack machine paints.

Features & Benefits:

- Excellent Extreme Pressure and Anti-Wear property
- Excellent film strength
- Extremely high load bearing ability
- Good anti-corrosion property
- Low gear less & Enhanced gear life
- Energy efficient
- Eco-friendly / Biodegradable

Applications / Recommendations:

Balmerol Biolube Plus Series is recommended for enclosed gears operating at high temperature and load.

Balmerol Biolube Plus Series can be stored in air tight containers at a dark place and not above 40 °C. For best performance, the product is to be used before six months from the date of manufacture.

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Typical Properties:

Balmerol Biolube Plus Series				
Properties	Biolube Plus 220	Biolube Plus 257	Biolube Plus 320	Biolube Plus 460
ISO VG Grade	220		320	460
Viscosity, cst @ 40°C, ASTM D 445	210	245	318	460
Specific Gravity@ 30 °C, ASTM D 1298	0.913	0.913	0.920	0.930
Viscosity Index, ASTM D 2270	150	150	150	150
Pour Point, °C ASTM D 97	- 32	- 30	-27	- 25
Flash Point, °C ASTM D 92	230	230	230	240
FZG Niemann EP Test, Pass Load Stage	12	12	12	12
Four Ball EP Test, Pass Load Kg, IP 239 (minimum)	400	400	400	400
Four Ball Wear Test, wear scar, ASTM D 4172	0.4	0.4	0.4	0.4
Copper Strip Corrosion, ASTM D 130, 3 hrs @ 100°C	1b	1b	1b	1b
Rust Test				
ASTM 665 A	Pass	Pass	Pass	Pass
ASTM 665 B	Pass	Pass	Pass	Pass
Acidity (Inorganic)	Nil	Nil	Nil	Nil
Ash (%) by mass, max	Nil	Nil	Nil	Nil

Health and Safety:

Balmerol Biolube Plus Series oils are not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. For MSDS please contact your local Balmer Lawrie Marketing / Technical Service team.

For Further Information, contact:

Balmer Lawrie & Co. Ltd.

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