

Balmerol[®] Liplax EM

Electric Motor Grease

Technical Data Sheet

Product Description:

Balmerol Liplax EM are high performance greases designed for lubrication of Electrical Motor bearings. They are based on high quality mineral base fluid and superior lithium complex soap thickener fortified with excellent antioxidant, antirust and antiwear additive systems. The viscometrics of the base oil blend suits the lubrication requirements of Electrical Motor bearings. These greases provide long term protection of the rolling elements over a wide temperature range.

Features & Benefits:

Balmerol Liplax EM greases provide the following benefits:

- Long service life due to the presence of high quality mineral oil and a stable lithium complex thickener system
- Excellent mechanical stability and high temperature capability.
- Excellent oxidation stability during service
- Superior protection to the rolling elements against rust and wear
- ISO VG 100 viscosity of the base fluid satisfies the requirements for grease lubricated bearings in most electrical motors.

Applications / Recommendations:

Balmerol Liplax EM 2 & EM 3 greases are suitably designed for most Electrical Motors and for bearings requiring sealed for life protection. They are suitable for applications from -20 °C to 140 °C, with intermittent temperature upto 160 °C.

Balmerol Liplax EM 2 is NLGI 2 grade grease suitable for high speed bearings.

Balmerol Liplax EM 3 is NLGI 3 grade grease suitable for bearings requiring thicker consistency.

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Typical Properties:

Balmerol Liplax EM		
Properties	Liplax EM 2	Liplax EM 3
NLGI	2	3
Thickener Type	Lithium complex	Lithium complex
Base Oil	Mineral	Mineral
Appearance	Smooth & Brownish	Smooth & Brownish
Base oil Viscosity, cst @ 40°C, ASTM D 445	105	105
Viscosity Index, ASTM D 2270	96	96
Worked Penetration 60/60 strokes at 25°C, ASTM D 217	265 - 295	220 - 250
Change in penetration after 100,000X, strokes at 25 °C, max ASTM D 217	+ 21	+27
Dropping Point °C, ASTM D 566	240	240
Oil Separation, % mass 30 hours @ 100 °C, ASTM D 6184	1.2	0.4
Emcor Rust Protection Test, IP 220	0,1	0,1
Water washout at 79° C weight loss, % max, ASTM D 1264	3.2	2.8
Oxidation Stability, Pressure drop kg/ cm ² after 100 hrs @ 99°C max, ASTM D 942	5	5

Health and Safety:

Balmerol Liplax EM greases 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:

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