

Balmerol[®] Calplex Grease

Premium Quality Multipurpose Calcium Complex Grease

Technical Data Sheet

Product Description:

Balmerol Calplex Greases are premium quality, multipurpose, water resistant, extreme pressure grease based on complex soap thickener and heavy metal free extreme pressure additives. It is formulated with high viscosity base oil and is designed for lubrication of bearings working in wet environment such as steel mill bearings.

Features & Benefits:

Balmerol Calplex Grease provides the following benefits:

- Natural EP property
- Good mechanical stability
- Excellent water resistance and good dispensing properties
- Adhesive properties provide coating to exposed parts
- Easily pumpable

Applications / Recommendations:

- The main application of Balmerol Calplex Grease is in bearings operating under severe conditions including shock loading in wet environment such as in cold rolling mills
- Balmerol Calplex Greases are suitable for centralized grease dispensing equipment. Grease consumption is drastically reduced due to better grease adhesiveness and better resistance to water wash out
- Good mechanical stability of the grease results in better bearing protection and maximization of bearing life in water wash out conditions

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Typical Properties:

Balmerol Calplex Grease		
Properties	Calplex L0	Calplex L1
Colour	Black	Black
Appearance	Smooth and Tacky	Smooth and Tacky
Thickener type	Calcium Complex	Calcium Complex
Base Oil Type	Mineral	Mineral
Kinematic Viscosity @ 40°C, ASTM D 445, cst	135 - 165	135 - 165
Viscosity Index, ASTM D 2270	80	80
Flash Point, (COC), °C, ASTM D 92	200	200
Worked Penetration 60/60 strokes at 25°C, ASTM D 217	355 - 385	310-340
Penetration Change after 100000 strokes, max., ASTM D 217 (Units)	± 25	± 25
Dropping Point °C, min, ASTM D 566	204	204
Copper Strip corrosion@ 100° C, 24 hrs, max. ASTM D 4048	Negative	Negative
Water wash out @ 80°C, % loss, max. ASTM D 1264	7.0	7.0
Oxidation stability, 100h, kgf/cm ² drop, max., ASTM D 942	0.7	0.7
Wheel Bearing test: ASTM D 1263		
a) Leakage in gms	5.0	5.0
b) Deposits in wheel bearing races or rollers	Free from deposits	Free from deposits
c) Evidence of abnormal change in consistency	No change	No change
d) Indication of dry running races	No dry running	No dry running
Roll stability test penetration, after 16 hrs, % Change, max, ASTM D 1831	15	15
Timken OK load, kgs, min. ASTM D 2509	16	16
Four Ball Weld load, kgs, min., IP 239	200	400
Four Ball Wear Scar Dia, mm, IP 239	0.5	0.5
Heat Stability @ 100°C, 30 hrs, % loss, max. IS 1448 P-89	5	5
Emcor Rust test rating, IP -220	0,0	0,0
Rust test rating, ASTM D 1743	Passes	Passes
Freedom from deleterious particles, number of scratches, ASTM D 1404	10	10



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Health and Safety:

Balmerol Calplex 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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