

Balmerol[®] Lipopol HWR 105

High Performance Steel Mill Grease

Technical Data Sheet

Product Description:

Balmerol Lipopol HWR 105 is high performance Extreme Pressure grease with exceptional resistance to the water contamination conditions typical of steel mill. Additionally, Balmerol Lipopol HWR 105 possess anti-rust and anti-wear properties for meeting the severe lubrication requirements in steel mill and other applications. Balmerol Lipopol HWR 105 is suitable for centralized lubrication system.

Features & Benefits:

Balmerol Lipopol HWR 105 provides the following advantages / benefits:

- Excellent ability to seal bearings against water intrusion, and to maintain consistency in the presence of water
- Very good corrosion resistance
- Outstanding performance under vibrating conditions, as well as heavy and shock loads
- Very good bearing protection for reduced maintenance and operating cost
- Excellent grease cohesion, adhesion and tackiness at high temperatures and in presence of water spray

Applications / Recommendations:

- Balmerol Lipopol HWR 105 is especially recommended for all heavy duty steel plants & engineering applications where resistance to high temperatures, loads, humidity and water is critical.
- Typical applications of Balmerol Lipopol HWR 105 grease include hot strip mill operation and paper mill bearings.

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Typical Properties:

Balmerol Lipopol HWR 105	
Properties	Lipopol HWR 105
Appearance	Dark Brown
Thickener type	Lithium
NLGI	1/2
Worked Penetration 60/60 strokes at 25°C, ASTM D 217	302
Penetration Change after 100000 strokes, max., 1/10 mm, ASTM D 217	315
Kinematic Viscosity of the extracted base oil, cSt @ 40 °C, ASTM D 445	220 +
Dropping Point °C, ASTM D 2265	192
Four Ball Weld load, kgs, IP 239	400
Timken OK Load in lbs, ASTM D 2509	55
Water Emulsion Test, ASTM D 3709-89 (2010)	Passes
Water wash out @ 80°C, % loss, ASTM D 1264	1.2
Wet Roll Stability, % thinning, ambient temperature for 1 hr, ASTM D 1831	3.6
Water spray-off @ 38.5 °C, 20 PSI (% Loss), ASTM D 4049	6.1
Oxidation stability @ 100 °C, 100 hrs, drop in pressure, kg/cm ² , ASTM D 942	Passes
Emcor Antirust test, IP 220	0,0
Evaporation Loss @ 125 °C for 22 hrs, % Loss, ASTM D 2596-96	0.62
SRV Characteristics, mode 5ae, ASTM D 5707-2011	Passes

Health and Safety:

Balmerol Lipopol HWR 105 is 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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SBU: Greases & Lubricants (G&L) Division

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