

Balmerol[®] Liplax HDX 460

High Performance Mining Grease

Technical Data Sheet

Product Description:

Balmerol Liplax HDX 460 is a premium, superior performance, tacky, high temperature grease, especially formulated for slow moving heavily loaded bearings working under heavy, shock loads and vibration. Balmerol Liplax HDX 460 is formulated using high viscosity mineral oil and lithium complex soap, carefully selected solid lubricants and synergistic blend of additives best suited for lubrication of slow moving heavy duty bearings found in mining & steel industries.

Balmerol Liplax HDX 460 has excellent water repellent properties, resists entry of water into the bearings and ensures protection against hostile environment. The grease retains its consistency under severe conditions of load and water ingress resulting in lower consumption levels. The grease provides excellent high temperature, anti corrosion & anti oxidation performance. It also contains premium solid lubricants to provide protection against shock loads.

Features & Benefits:

Balmerol Liplax HDX 460 greases have the following advantages / benefits:

- Outstanding Extreme Pressure (EP) performance under heavy load and high temperature conditions, leading to better bearing protection and lower downtime cost
- Excellent water resistance and rust protection, reducing lower bearing failure due to ingress of moisture and rusting
- Excellent mechanical stability and higher tackiness, ensuring the grease adheres to the bearings resulting in lower consumption and better protection of bearings
- High Dropping Point and superior oxidation resistance properties which enables it to be used at higher temperatures without equipment failures
- Lead and Nitrite free, non toxic for the environment

Applications / Recommendations:

Balmerol Liplax HDX 460 may be used for lubrication of heavy duty, slow moving bearings operating under heavy, shock loads and vibration, used in Mining operations and Steel industries.

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Typical Properties:

Balmerol Lipler HDX 460	
Properties	Balmerol Lipler HDX 460
NLGI Grade	2
Colour	Black
Thickener Type	Lithium - Complex
Base Oil	Mineral
Molybdenum Disulphide, %	3 minimum
Worked Penetration 60/60 strokes at 25°C, ASTM D 217	265 - 295
Base oil Viscosity, cst @ 40°C, ASTM D 445	460
Dropping Point °C, ASTM D 566	260 +
Four Ball Weld Load, Kg, ASTM D 2596	620 typical (560 minimum)
Four Ball Wear Scar Dia, mm, ASTM 2266	0.6
Water Wash Out, % Loss @ 80°C max, ASTM D 1264	3 max
Emcor Rust Protection Test, IP 220	0,0
Oil Separation, % by mass, ASTM D 1742	2.5 max

Health and Safety:

Balmerol Lipler HDX 460 grease 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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