

*Always Smooth, Always Ahead*

**BALMEROL<sup>®</sup> Liplax HDX 460**  
(High Performance Mining Grease)

## PRODUCT DESCRIPTION

**BALMEROL Liplax HDX – 460** is a premium grade, high performance, highly adherent, high temperature grease, specially formulated for slow moving heavily loaded bearings working under heavy loads, shock loads and vibration.

**BALMEROL Liplax HDX – 460** is specially 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 and 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.

## PERFORMANCE FEATURES

- Excellent mechanical stability
- Very good rust and oxidation lubricating characteristics
- Outstanding extreme pressure performance under heavy load and high temperature conditions
- Excellent water resistance properties
- High Dropping point
- Highly adherent properties
- Lead and Nitrite free

## APPLICATION

**BALMEROL Liplax HDX – 460** may be used for lubrication of heavy duty , slow moving bearings under heavy loads , shock loads and vibration , used in mining operations and steel industries .

## AVAILABILITY

**BALMEROL Liplax HDX – 460** is available in 180 kg drums and 18 kg packing sizes.



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Sl. No.	Descriptions	Typical Value	Method
1.	Colour	Black	Visual
2.	NLGI Grade	2	-
3.	Thickener Type	Lithium Complex	-
4.	MoS2 Content , % by wt.	3.0	-
5.	Base Oil Type	Mineral	-
6.	Base Oil Parameters a) Base Oil Viscosity @ 40 deg. C ,cSt. b) Base oil viscosity @ 100 deg. C ,cSt.	460 32	ASTM D 445 ASTM D 445
7.	Worked Penetration, mm/10 , 60 strokes	265 - 295	ASTM D 217
8.	Worked Penetration after 1,00,000 strokes, mm/10 , Change from 60 strokes	+35 max.	ASTM D 217
9.	Dropping Point, 0C	260 min.	ASTM D 566
10.	Water Wash out, at 79oC, % loss	3.0 max	ASTM D 1264
11.	Emcor Rust Test, Rating	0,0	IP 220
12.	<b>Four Ball EP Test , Weld Load, kgs</b>	560 min. 620 (typical)	IP 239 , 10 sec
13.	Oil Separation, % by mass	2.5 max.	ASTM D 1

