



# Black Bulls

— *Innovating Mobility* —



[www.blackbulls.com](http://www.blackbulls.com)



# Black Bulls BEMAX Greases

## Extreme Pressure (EP)

### Performance Classification:

DIN-51825-KP00K-20, DIN-51825-KP0K-20, DIN-51825-KP1K-20, DIN-51825-KP2K-20,  
DIN-51825-KP3K-20 ASTM-D-4950 LB-GC

### Description :

Black Bulls **Bemax** is a family of greases formulated to meet most automotive and industrial needs. The Bemax ranges include General purpose (GP), Multipurpose (MP), Extreme pressure (EP) and high temperature (HT) to simplify your product inventory.





## Bemax Extreme Pressure (EP)

Lithium 12-Hydroxy-stearate soap thickened for almost any application. Blended with extreme pressure, anti-oxidants, and corrosion resistance additives provide excellent water resistance, excellent shear stability, and longer life. **Bemax EP** is a grease of choice for multi-purpose, extreme pressure applications requiring normal to high operating temperature, and loaded machines.

### Typical Physical Properties of BEMAX (EP) Greases

Properties	ASTM	EP-00	EP-0	EP-1	EP-2	EP-3
NLGI Grade	D217	00	0	1	2	3
Penetration (Worked 60 Stroke)	D217	400-430 @ 25°C	355-385 @ 25°C	330@25°C	280@25°C	240@25°C
Thickener	Declared	Lithium hydroxystearate				
Base Oil	Declared	Mineral	Mineral	Mineral	Mineral	Mineral
Base Oil Viscosity cSt@40°C	D445	220*	220*	220*	220*	220*
Temperature of Use	D2265	120°C Max	120°C Max	130°C Max	130°C Max	130°C Max
Drop Point	D566	-	>175	>190°C	>190°C	>190°C
Non-Corrosive	D1743	Pass	Pass	Pass	Pass	Pass
Water Washout 80°C, %, max	D1264	NA	NA	<5	<5	<5
Four Ball Wear scar dia, mm, max	D2266	0.6	0.6	0.6	0.6	0.6
Four Ball EP Weld point, kg, min	IP 239	250	250	250	250	250
Oil Separation mass %, max	D1742	NA	NA	<5	<5	<5
Storage Temperature	Declared	25°C	25°C	25°C	25°C	25°C
Pumpability (Long distance)	Declared	Excellent	Excellent	Good	Fair	No
Shelf Life*	Declared	5 Years	5 Years	5 Years	5 Years	5 Years

*\*Stored at room temperature and unopened container*

### Application:

Specially formulated for low/medium speed moderately loaded automotive or industrial applications. Suitable for automotive and industrial machines, plain/rolling elements bearings, marine, agricultural, mining, construction machinery, pumps, conveyors, elevators, chains, pulleys, cranes, shafts, and automotive applications where water resistance and good thermal stability required.

### Packaging:

0.5 KG	Plastic or metal can (Carton of 24 pcs)
1 KG	Plastic or metal can (Carton of 12 or 24 pcs)
2 KG	Plastic pail
5 KG	Plastic pail
15 KG	Plastic or metal pail
20 KG	Metal pail
180 KG	Metal drum



# Black Bulls BEMAX Greases

## General Purpose (GP)

### Performance Classification:

DIN-51825-K2H-0, DIN-51825-K3H-0, ASTM-D-4950 GA-LA





## Description :

Black Bulls Bemax is a family of greases formulated to meet most automotive and industrial needs. The Bemax ranges include General purpose (GP), Multipurpose (MP), Extreme pressure (EP) and High temperature (HT) to simplify your product inventory.

## Bemax General Purpose (GP)

Specially blended calcium hydroxy-stearate soap thickened for wet (aqueous) environment. Good water resistance and good shear stability. Bemax GP is a grease of choice for any general-purpose application requiring normal operating temperature and moderately loaded machines.

## Typical Physical Properties of BEMAX (GP) Greases

Properties	ASTM	Bemax GP-2	Bemax GP-3
NLGI Grade	D217	2	3
Penetration (Worked 60 Stroke)	D217	280@25°C	240@25°C
Thickener	Declared	Calcium Hydroxy Stearate	Calcium Hydroxy Stearate
Base Oil	Declared	Mineral	Mineral
Base Oil Viscosity cSt@40°C	D445	150	150
Temperature of Use	D2265	100°C Max	100°C Max
Drop Point	D566	155°C	155°C
Non-Corrosive	D1743	Pass	Pass
Storage Temperature	Declared	25°C*	25°C*
Shelf Life*	Declared	5 Years	5 Years
Pumpability (Long distance)	Declared	Fair	No

*\*Stored at room temperature and unopened container*

## Application:

Specially formulated for low/medium speed moderately loaded automotive or industrial applications. Suitable for automotive and industrial machines, plain/rolling elements bearings, marine, agricultural, mining, construction machinery, pumps, conveyors, elevators, chains, pulleys, cranes, shafts, automotive applications, or whenever a grease of this grade and type is recommended by the manufacturer.

## Packaging:

0.5 KG	Plastic or metal can (Carton of 24 pcs)
1 KG	Plastic or metal can (Carton of 12 or 24 pcs)
2 KG	Plastic pail
5 KG	Plastic pail
15 KG	Plastic or metal pail
20 KG	Metal pail
180 KG	Metal drum



# Black Bulls BEMAX Greases

## Multi-Purpose (MP)

### Performance Classification:

DIN-51825-K2K-10, DIN-51825-K3K-10 ASTM-D-4950 LB-GB





## Description :

Black Bulls Bemax is a family of greases formulated to meet most automotive and industrial needs. The Bemax ranges include General purpose (GP), Multipurpose (MP), Extreme pressure (EP) and High temperature (HT) to simplify your product inventory.

## Bemax Multi-Purpose (MP)

Lithium 12-Hydroxy-stearate soap thickened for almost any application. Excellent water resistance, excellent shear stability and longer life. Bemax MP is a grease of choice for multi-purpose applications requiring normal to medium operating temperature and loaded machines

## Typical Physical Properties of BEMAX (MP) Greases

Properties	ASTM	Bemax MP-2	Bemax MP-3
NLGI Grade	D217	2	3
Penetration (Worked 60 Stroke)	D217	280@25°C	240@25°C
Thickener	Declared	Lithium 12-Hydroxy Stearate	Lithium 12-Hydroxy Stearate
Base Oil	Declared	Mineral Blend	Mineral Blend
Base Oil Viscosity cSt@40°C	D445	150	150
Temperature of Use	D2265	120°C Max	120°C Max
Drop Point	D566	>180°C	>180°C
Storage Temperature	Declared	25°C*	25°C*
Shelf Life*	Declared	5 Years	5 Years
Pumpability (Long distance)	Declared	Fair	No

*\*Stored at room temperature and unopened container*

## Application:

Specially formulated for low/medium speed moderately loaded automotive or industrial applications. Suitable for automotive and industrial machines, plain/rolling elements bearings, marine, agricultural, mining, construction machinery, pumps, conveyors, elevators, chains, pulleys, cranes, shafts, automotive applications where water resistance and good thermal stability required.

## Packaging:

0.5 KG	Plastic or metal can (Carton of 24 pcs)
1 KG	Plastic or metal can (Carton of 12 or 24 pcs)
2 KG	Plastic pail
5 KG	Plastic pail
15 KG	Plastic or metal pail
20 KG	Metal pail
180 KG	Metal drum



# Black Bulls LithPlex Greases

## Lithium Complex High Temperature (EP) (HT)

### Performance Classification:

DIN-51825-KP00N-20, DIN-51825-KP0N-20, DIN-51825-KP1N-20, DIN-51825-KP2N-20.  
ASTM-D-4950 LB-GC or higher.

### Description :

Black Bulls Lithium Complex (LithPlex) is a family of high temperature, extreme pressure greases formulated to meet most demanding automotive and industrial needs. The LithPlex ranges include HT-EP 00, HT-EP 0, HT-EP 1 and HT-EP-2.





## Lithium Complex (LithPlex) HT-EP

Black Bulls Lithium Complex soap grease for almost any application. Excellent water resistance, excellent shear stability and longer life. LithPlex is a grease of choice for heavy load, extreme pressure and high temperature applications.

### Typical Physical Properties of BEMAX Lithium Complex (HT) (EP)

Properties	ASTM	HT-EP-00	HT-EP-0	HT-EP-1	HT-EP-2	HT-EP-3
NLGI Grade	D217	00	0	1	2	3
Penetration (Worked 60 Stroke) @25°C	D217@25°C	400-430@25°C	355-385@25°C	330@25°C	280@25°C	240@25°C
Thickener	Declared	Lithium Complex				
Base Oil	Declared	Mineral Blend	Mineral Blend	Mineral Blend	Mineral Blend	Mineral Blend
Base Oil Viscosity cSt@40°C	D445	220*	220	220	220	220
Temperature of Use	D2265	150°C Max**	150°C Max**	150°C Max**	150°C Max**	150°C Max**
Drop Point	D566	>225°C	>230°C	>260°C	>260°C	>260°C
Non-Corrosive	D1743	Pass	Pass	Pass	Pass	Pass
Water Washout 80°C, %, max	D1264	<5	<5	<5	<5	<5
Four Ball Wear scar dia, mm, max	D2266 / IP239	0.6	0.6	0.6	0.6	0.6
Four Ball EP Weld point, kg, min	D2596 / IP239	250	250	250 / 315*	250 / 315*	250 / 315*
Oil Separation mass %, max	D1742	NA	NA	<5	<5	<5
Storage Temperature	Declared	25°C	25°C	25°C	25°C	25°C
Shelf Life*	Declared	5 Years*	5 Years*	5 Years*	5 Years*	5 Years*
Pumpability (Long distance)	Declared	Excellent	Excellent	Good	Fair	No

\*Stored at room temperature and unopened container.

\*\* up-to 150-170°C: bearings operating near their maximum recommended temperatures, re-greasing intervals should be reviewed.

### Application:

High Temperature/Extreme pressure grease for highly loaded ball, roller, plain bearings and machines running at high temperatures. Extended service life even at continuous high temperature such as automotive disk and drum brakes, steel, cement and chemical industries.

Suitable for automotive and industrial machines, bearings, marine, agricultural, mining, construction machinery, pumps, conveyors, elevators, chains, pulleys, cranes, shafts, and automotive applications where excellent water resistance and excellent thermal stability required.

### Packaging:

0.5 KG	Plastic or metal can (Carton of 24 pcs)
1 KG	Plastic or metal can (Carton of 12 or 24 pcs)
2 KG	Plastic pail
5 KG	Plastic pail
15 KG	Plastic or metal pail
20 KG	Metal pail
180 KG	Metal drum



# Black Bulls OHC Grease

**For Overhead Line Conductors Grease**

Performance Classification:

BS EN 50326, IEC 61394





## Description :

**Black Bulls OHC:** OHC grease that is truly multipurpose formulation for overhead line conductors and demanding applications particularly having water, dust, and extreme operating temperatures.

- Extremely low oil separation
- Inherited Anti-corrosion
- Inherited Antioxidant
- Water resistance

## Typical Physical Properties:

Properties	ASTM	Makura OHC-2-460
NLGI Grade	D217	2
Penetration (60 Stroke)	D217	275-290
Thickener	Declared	Non-Soap
Base Oil	Declared	Highly Refined Blend
Dropping Point	D566	>300°C
Non-Corrosive	D1743	Pass
Oil Separation (%M) 1 hour @ 125°C	IP121	<0.02 Typical

*\*Stored at room temperature and unopened container.*

## Application:

Applications for Black Bulls **OHC** grease includes overhead line conductors and demanding applications particularly in harsh environment.

## Packaging:

180 KG

Metal drum



# Black Bulls Makura Greases

## Sulfonate Complex (HL-HT-EP)

### Performance Classification:

ISO 6743-9: L-XBFIB 1, ISO 6743-9: L-XBFIB 2, DIN 51502: KP1/2R -25, ASTM-D-4950 LB-GC or better.

### Description :

Black Bulls Makura is a family of high temperature, extreme pressure greases formulated to meet most demanding automotive and industrial needs





## Application:

Applications for Black Bulls Makura Sulfonate Complex greases include steel mills, paper manufacturing mills, cement, mining, automotive, agricultural, construction and food industry.

## Typical Physical Properties

Properties	ASTM	CLX-1-220	CLX-2-220	CLX-1-460	CLX-2-460
NLGI Grade	D217	1	2	1	2
Penetration (60 Stroke)	D217	320-335	275-290	320-335	275-290
Thickener	Declared	Sulfonate Complex	Sulfonate Complex	Sulfonate Complex	Sulfonate Complex
Base Oil	Declared	Mineral Blend	Mineral Blend	Mineral Blend	Mineral Blend
Base Oil Viscosity cSt@40°C	D445	220	220	460	460
Temperature of Use	D2265	180°C **	180°C **	180°C **	180°C **
Drop Point	D566	>300°C	>300°C	>300°C	>300°C
Non-Corrosive	D1743	Pass	Pass	Pass	Pass
Four Ball Wear scar dia, mm, max	D2266	0.6	0.6	0.6	0.6
Four Ball EP Weld, kg, min	D2596	500	500	620	620
Storage Temperature*	Declared	25°C	25°C	25°C	25°C
Shelf Life*	Declared	5 Years*	5 Years*	5 Years*	5 Years*
Pumpability (Long distance)	Declared	Excellent	Fair	Good	Fair

*\*Stored at room temperature and unopened container.*

*\*\* If bearings operating near or above recommended temperatures, re-greasing intervals should be reviewed.*

## Steel Mills and Paper Industry:

In steel plants, greases for bearing lubrication are subject to high loads, high heat and water. Black Bulls Makura CLX-460 grease is suitable for the lubrication of bearings in steel plants, continuous castings and rolling mills.

Comparing In a transportation roller bearing or similar application in a hot rolling mill to other commercial greases found in steel mills, Black Bulls Makura CLX-460 grease performs exceptionally well even when operating temperatures were above 150°C. Black Bulls Makura Sulfonate Complex offered a significant improvement in performance, bearing life and extended re-greasing intervals in steel mills and paper manufacturing industry.

## Automotive:

Automotive applications for Black Bulls Makura CLX greases include but not limited to chassis, ball joints, universal joints and wheel bearings. Extended service life even at continuous high temperature applications such as bearings in automotive disk and drum brakes.

## Industrial Applications:

Industrial applications include electric motors, continuous casters, conveyors, ball mills, crushers and off-shore applications.



HIGH TEMP

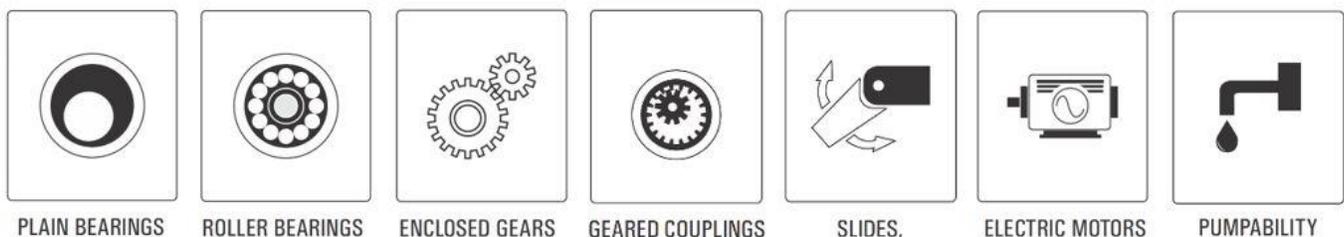
LOW TEMP.

EXTREME PRESSURE

SHOCK LOAD

WATER

LIFE



PLAIN BEARINGS

ROLLER BEARINGS

ENCLOSED GEARS

GEARED COUPLINGS

SLIDES,

ELECTRIC MOTORS

PUMPABILITY

## Packaging:

0.5 KG	Plastic or metal can (Carton of 24 pcs)
1 KG	Plastic or metal can (Carton of 12 or 24 pcs)
2 KG	Plastic pail
5 KG	Plastic pail
15 KG	Plastic or metal pail
20 KG	Metal pail
180 KG	Metal drum



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