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**TECHNICAL DATA SHEET**

# HB-520

## Dura-Max Grease EP

### DESCRIPTION:

- Technically advanced, extreme pressure greases for a wide variety of industrial, and on- and off-road applications.
- Formulated with type 2 base stocks, a lithium complex thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives. They are blue in color with a tacky texture.
- Engineered to minimize friction and wear with a thick, velvety coating for excellent load carrying protection. They perform exceptionally well on all types of industrial bearings and slide applications.
- Especially formulated for extreme pressure wheel bearing and chassis applications including the steering drag links, king pins, transmission cross shaft spring pins, shackle pins, brake cam shafts, and fifth wheel faceplates and pivots operating under high and low temperature conditions.
- High viscosity index base oil makes these products perfect for the centralized lubrication systems

### ADVANTAGES

- Extreme-pressure high load carrying capacity
- Excellent corrosion and wear protection
- Excellent water resistance
- Excellent high temperature stability
- Outstanding low temperature pump-ability

### APPLICATIONS

**On-highway heavy duty trucks** -- These lubricants are perfect for a wide variety of Class 8 trucks in all chassis and wheel bearing applications ranging from automatic centralized greasing systems to wheel bearings operating near the high temperatures of disc brakes. This product is for all applications, from owner-operators to fleets (especially those considering extended service intervals).

**Off-highway vehicles** -- Whether the application is in construction, logging, mining, agriculture or utilities, these greases will perform. Use them in haul trucks, loaders, tractors, cherry pickers or any of a number of other off-highway vehicles,

**Medium- and light-duty trucks and buses** --As with their heavy duty counterparts, the Class 7 and Class 6 vehicles and buses require an extreme duty grease, Dura-max Greases EP will provide that performance.

**Automobiles** -- HB-520 Greases EP are exceptional lubricants for high temperature wheel bearings and other high performance automotive applications.

**TYPICAL TEST DATA**

NLGI Grade	00	0	1	2
CPS Number	235212	235211	235209	235208
MSDS Number	6818	6818	6818	6818
Operating Temperature, °C(~F)				
Minimum	-34(-30)	-34(30)	-18(0)	-18(0/)
Maximum	77(170)	99(210)	177(350)	177(350)
Penetration, at 25°C(77°F)				
Unworked	430	380	330	257
Worked (60 Strokes)	415	370	325	260
Dropping Point, °C(°F)	235(455)	235(455)	255(491)	265(509)
Timken OK Load, lb	55	55	55	75
Four-Ball				
Weld Point, kg	400	400	500	500
Wear Scar Diameter, mm	0.45	0.45	0.45	0.45
Lincoln Vent meter, psig at 30 s, at				
75°F	50	100	200	250
30°F	50	150	450	700
0°F	100	450	1250	1400
-22°F				
Copper Corrosion	1 B	1B	1B	1 B
Bearing Rust, 10% Synthetic Sea Water	Pass	Pass	Pass	Pass
Thickener, %	4.0	5.8	8.0	11.0
Type: Lithium Complex				
Viscosity, Kinematic*				
cSt at 40°C	189	189	189	189
cSt at 100°C	17.5	17.5	17.5	17.5
Viscosity, Saybolt*				
SUS at 100°F	992	992	992	992
SUS at 210°F	90	90	90	90
Viscosity Index	100	100	100	100
Flash Point, °C(°F)*	246(475)	274(525)	274(525)	274(525)
Texture	Tacky	Tacky	Tacky	Tacky
Color	Blue	Blue	Blue	Blue

**NOTE:**

These products are formulated to perform in unusually demanding conditions of high and low temperatures. The lithium complex thickener in Dura-Max Greases EP elevates the dropping point to approximately 266°C (510°F). This high dropping point equates to excellent high temperature stability up to 177°C (350°F).

HB-520 Grease EP has the proper base oil viscosity to meet NLGI GC-LB requirements for low temperature operation. NLGI 1 and 2 are recommended for applications operating in the temperature range of -18°C to 177°C (0°F to 350°F). NLGI 00 and 0 can be used at temperatures as low as -34°C (-30°F).

HB-520 Grease EP exceeds the requirements of NLGI GC-LB for EP protection and rust protection, making them well suited for the most severe applications.

Dura-Max Grease EP is designed for extreme duty in a wide variety of industrial plant, on- and off-highway vehicle and equipment applications.

NLGI 1 and 2 are approved for the NLGI Certification Mark GC-LB. Dura-Max Grease EP meets the requirements of the Mack MG-C grease specification,