

310**Blue Max Grease**
Multipurpose Grease

Description: Blue Max 310 is a smooth, deep blue, lithium complex grease formulated for operations from a minus 40°F but with a dropping point of 500°F.

Composition: A high-quality, high-performance lithium complex grease.

Performance

Characteristics: **MECHANICAL STABILITY** - Blue Max 310 resists thinning or hardening in bearings, thereby minimizing leakage and maintaining extended, long life service.

OXIDATION AND CORROSION PROTECTION - The high level of additive treatment minimizes chemical deterioration over extended periods of storage and service. Protects steel and copper alloy bearings against rust and corrosion.

EXTREME PRESSURE PROTECTION - The EP additives in Blue Max 310 provide effective wear protection for ball and roller bearings at high rpm and under heavy load.

FORMULATION - Superior quality refined lube stocks are combined with a high quality lithium complex thickener and additives under rigid laboratory and process control. Special compounding supplies beneficial anti-friction properties.

TEMPERATURE STABILITY - Blue Max 310 offers excellent low temperature pumpability and high temperature protection.

WATER RESISTANCE - It effectively resists washout and excessive dilution by water, assuring all-weather lubrication.

Applications: Blue Max 310 is an extreme pressure (EP) grease. Recommended for extended service in heavy duty equipment, high temp wheel bearings (disc brakes), high speed roller and ball bearings, electric motor bearings, throw out and all general industrial and automotive grease requirements. Blue Max 310 is recommended in soft and semi-fluid grades for extreme cold and for centralized lubrication systems.



Typical

Specifications:

<u>NLGI Grades</u>	<u>No. 2</u>	<u>No. 1</u>	<u>No. 0</u>	<u>No. 00</u>
Worked 60 Penetration, ASTM D217	265-295	310-340	355-385	400-430
Dropping Point, °F(°C)	500+(260+)	500+(260+)		
Thickener	Li-Complex	Li-Complex	Li-Complex	Li-Complex
Water Washout, % loss, ASTM D1264	2.9 @175°F			
Wheel Bearing Leakage, g loss, ASTM D4290	2.0			
Oxidation Stability, psi @ 100 hrs, ASTM D942	5 Max	5 Max	5 Max	5 Max
Oil Separation, % loss, ASTM D1742	1.4			
Copper Corrosion, ASTM D4048	1b	1b	1b	1b
Rust Prevention, ASTM D1743	Pass	Pass	Pass	Pass
	<u>No. 2</u>	<u>No. 1</u>	<u>No. 0</u>	<u>No. 00</u>
Timken OK Load, lbs, ASTM D2509	80	80	80	80
Four-Ball Wear, mm, ASTM D2266	0.47	0.47	0.47	0.47
Four-Ball EP Weld Point, kgf, ASTM D2596	315	315	315	315
Four-Ball Load Wear Index, ASTM D2596	50	50	50	50
Approximate Operating Temperature Range	-10 to 325°F -23 to 163°C	-10 to 325°F -23 to 163°C	-40 to 325°F -40 to 163°C	-40 to 325°F -40 to 163°C
Texture	Smooth, Tacky	Smooth, Tacky	Smooth, Tacky	Smooth, Tacky
Color	Blue	Blue	Blue	Blue
<u>Base Fluid Properties:</u>				
Viscosity, ASTM D445				
cSt, @ 40°C	449	350	247	153
cSt, @ 100 °C	35	27	20	15
SUS @ 100 °F	2080	1622	1145	709
SUS @ 210 °F	166	129	99	78
Viscosity Index	117	103	100	98
Pour Point, °F (°C)	10(-12)	10(-12)	10(-12)	10(-12)