



Blue Gard® 500+™

High Temperature Multi-purpose Lithium Complex Grease

General Description

Blue Gard® 500+™ is a modern, high-performance, heavy duty, lithium complex multi-purpose grease, that sets a new standard for automotive, industrial and agricultural use. Blue Gard 500+ qualifies for the highest performance level of automotive chassis and wheel-bearing grease classification, GC-LB for its #2 NLGI grade. Its excellent low-temperature characteristics, water resistance properties and superior oxidation control allow for long service in both on- and off-road equipment.

The lithium complex thickener structure gives Blue Gard 500+ a high degree of mechanical stability. This grease is formulated with high-quality 220 base oils for high-temperature performance. In addition, Blue Gard 500+ is formulated with a carefully balanced additive package for superior rust control, oxidation control and wear protection, all leading to extended equipment life.

Blue Gard 500+ is a premium grease that is flexible enough for most applications, yet tough enough to handle severe conditions. Its proven seal compatibility, EP capabilities and anti-wear properties round out an excellent multi-purpose product.

Features and Benefits

- **Extreme Pressure Performance:** Excellent extreme pressure properties reduce wear and maintenance costs.
- **Long Life:** Enhanced oxidative and thermal stability lead to longer grease life.
- **High Dropping Point:** A dropping point over 500°F demonstrates Blue Gard 500+'s ability to handle high-temperatures.
- **Rust and Corrosion Protection:** Excellent rust and corrosion prevention leads to prolonged equipment life.
- **Seal Compatibility:** Excellent seal compatibility decreases degradation and swelling of seal materials.

Expect Superior Performance In

- High-temperature applications
- Moist environments
- Shock load conditions
- Chassis lubrication
- Wheel bearings

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Typical Applications

Blue Gard® 500+™ is recommended for:

- NLGI Service GC-LB
- High-temperature operations
- Severe load applications

Typical Customers

- Agricultural Equipment Operators & Shops
- Industrial Equipment Operators
- Truck Service Shops
- Auto Service Shops
- Mining Service Companies
- Construction Companies

Typical Properties

Properties	Blue Gard 500+ #2	Blue Gard 500+ #1	Blue Gard 500+ #0
NLGI Grade	2	1	0
NLGI Service Classification	GC-LB		
Thickener	Lithium Complex	Lithium Complex	Lithium Complex
Color	Blue	Blue	Blue
Penetration, 60 strokes (range)	265-295	310-340	355-385
Dropping Point, Minimum °F	>500	>500	>450
Base Oil Viscosity, cSt @ 40°C	220	220	220
Base Oil Viscosity, cSt @ 100°C	18	18	18
Base Oil Viscosity Index	89	89	89
Timken Load	60 lbs.	55 lbs.	50 lbs.
Four Ball Wear Scar	0.6 max	0.6 max	0.6 max
Four Ball EP Weld	400	400	315
Four Ball Load Wear Index	56	56	45
Rust Protection	Pass	Pass	Pass
Copper Corrosion	1b	1b	1b
Oxidation Stability @100 hrs	<5	<5	<5
Oil Separation % Separated	2	2	N/A
Water Washout % Loss @ 175°F	<5%	<10	N/A
High Temp Wheel Bearing Life, hrs	>80	N/A	N/A
Low Temperature Torque @ -40°F, N-m	<15.5	N/A	N/A
Operating Temperature Range °F	-20 to 280°F	-20 to 280°F	-30 to 270°F
Operating Temperature Range °C	-30 to 140°C	-30 to 140°C	-35 to 130°C

The data can vary within given tolerances. Temperature range is given as a guideline only.

The typical properties listed reflect the general characteristics of the product, and are not manufacturing specifications. Normal batch-to-batch variations should be expected.

Health & Safety

A complete safety data sheet is available by calling 1-651-355-8438 or at cenex.com/sds-library.