



# SONIC® BLUE GUARD®

## MULTI-PURPOSE GREASE

### PRODUCT DESCRIPTION

SONIC® BLUE GUARD® is a premium-quality, multi-purpose NLGI #2, lithium-complex grease. It is designed to lubricate effectively both heavy- and light-duty bearings operating at a variety of speeds.

SONIC® BLUE GUARD® qualifies for the highest NLGI performance level (GC-LB) for automotive chassis and wheel-bearing grease. It excels in protection against rust, corrosion and oxidation. In addition has anti-wear and extreme pressure additives in the blend.

### PERFORMANCE FEATURES

- NLGI Classification GC-LB: Meets the highest performance level of automotive chassis and wheel bearing grease requirements.
- Excellent resistance to water wash-off
- High dropping point
- Stays stable even at high temperatures
- Extreme pressure additives
- Ensures protection under heavy loads.
- Compatible with most comparable grease

### APPLICATIONS

SONIC® BLUE GUARD® can be used in a variety of applications, including:

- High-temperatures
- Wet environments
- Extreme pressures
- Mutli-purpose use
- Chassis lubrication
- Wheel bearing greasing

### TECHNICAL PROPERTIES

PROPERTIES	TEST METHOD	BLUE GUARD
NLGI Grade	ASTM D217	2
NLGI Service Classification	ASTM D4950	GC-LB
Thickener	—	Lithium Complex
Color	—	Blue
Penetration, 60 strokes (range)	ASTM D217	265-295
Dropping Point, Minimum °C (°F)	ASTM D2265	>260° (>500°)
Base Oil Viscosity, cSt @ 40°C	ASTM D445	220
Base Oil Viscosity, cSt @ 100°C	ASTM D445	18
Base Oil Viscosity Index	ASTM D2270	89
Timken Load	ASTM D2509	60
Four Ball Wear Scar	ASTM D2266	0.6 max
Four Ball EP Weld	ASTM D2596	400
Four Ball Load Wear Index	ASTM D2596	56
Rust Protection	ASTM D1743	Pass
Copper Corrosion	ASTM D4048	1b
Oxidation Stability @100 hrs	ASTM D942	<5
Oil Separation % Separated	ASTM D1742	2
Water Washout % Loss @ 79°C (175°F)	ASTM 1264	<5%
High Temp Wheel Bearing Life, hrs	ASTM D3527	>80
Low Temperature Torque @ -40°, N-m	ASTM D4693	<15.5
Operating Temperature Range °C (°F)	—	-30°to 140° (-20° to 280°)

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

## COMPATIBILITY OF GREASES

Thickener Type	Aluminum Complex	Hydrated Calcium	Anhydrous Calcium	Calcium Complex	Calcium Sulfonate Complex	Clay	Lithium	Lithium Complex	Polyurea
Aluminum Complex		✗	✓	●	✗	✗	✗	✓	●
Hydrated Calcium	✗		✓	✗	✓	●	●	✓	●
Anhydrous Calcium	✓	✓		●	●	✓	✓	✓	✗
Calcium Complex	●	✗	●		✓	●	✗	✓	✓
Calcium Sulfonate Complex	✗	✓	●	✓		✗	✓	✓	✓
Clay	✗	●	✓	●	✗		●	✗	●
Lithium	✗	●	✓	✗	✓	●		✓	●
Lithium Complex	✓	✓	✓	✓	✓	✗	✓		✗
Polyurea	●	●	✗	✓	✓	●	●	✗	

**Note:** Greases of different thickeners should always be considered incompatible. Whenever possible the old product should be purged from the system, before introducing a new product. If thickeners are considered compatible, be aware that similar grease may contain clashing base oil or additive formulations. This chart is an adaptation of the grease compatibility chart outlined by the National Lubricating Grease Institute (NLGI) and does not take into consideration the variety of specialty synthetic greases and is intended as a guide only.

 Compatible   
  Requires Testing   
  Incompatible

## RECYCLING OF USED LUBRICANTS AND CONTAINERS

Please protect the environment when disposing of petroleum products. All products should be taken to an authorized collection facility or picked up by a qualified organization. This ensures the products will be disposed of in an environmentally sensitive manner. For additional information on used-oil recycling programs, please see the following:

- Saskatchewan – [www.usedoilrecyclingsk.com](http://www.usedoilrecyclingsk.com)
- Alberta – [www.usedoilrecyclingab.com](http://www.usedoilrecyclingab.com)
- British Columbia – [www.bcusedoil.com](http://www.bcusedoil.com)
- Manitoba – [www.usedoilrecycling.com/en/mb](http://www.usedoilrecycling.com/en/mb)

## PRODUCT SELECTION

PRODUCT SIZES	BLUE GUARD
10 x 400 g Tubes	✓
17 kg Pails	✓
55 kg Kegs	✓
180 kg Drums	✓

## MATERIAL SAFETY DATA SHEETS

Product-specific material safety data sheets (MSDS) can be obtained by contacting your local retail co-op or Federated Co-operatives Limited (see contact information below) or by going online at [coopconnection.ca](http://coopconnection.ca)

## CONTACT INFO

For more information on this or any other CO-OP<sup>®</sup> lubricant product, please contact your local retail co-operative or Federated Co-operatives Limited.

[petroadmin@fcL.crs](mailto:petroadmin@fcL.crs) • [www.coopfuel.ca](http://www.coopfuel.ca) • [www.coop.ca](http://www.coop.ca)

SONIC<sup>®</sup> BLUE GUARD<sup>®</sup> <sup>®</sup>Registered trademarks of Federated Co-operatives Limited, Saskatoon S7K 3M9  
<sup>®</sup>CO-OP and the CO-OP logo are registered trademarks of TMC Distributing Ltd., Saskatoon S7K 3M9





# SONIC® RED GUARD

## SUPERIOR TACK GREASE

### PRODUCT DESCRIPTION

SONIC® RED GUARD is an extra-tacky, high-temperature, lithium complex grease with excellent multi-purpose properties. It is formulated with extreme pressure (EP) additives, anti-wear agents and long-lasting corrosion and oxidation inhibitors.

The lithium complex thickener in SONIC® RED GUARD makes the product suitable for applications within a very wide temperature range and especially applications at elevated temperatures. The thickener structure also gives the product a high degree of mechanical stability, which enhances the performance in vibrating housings and prolongs re-lubrication intervals.

SONIC® RED GUARD is a premium grease that is fortified with extra tackifiers to stay in place to cover and protect a wide variety of components.

### PERFORMANCE FEATURES

- Extreme pressure additives reduce wear and potential maintenance costs
- Specialized polymer composition seals out external contamination
- Fortified with additional tackifiers provides outstanding adhesive and film strength that helps to keep the grease in place
- Enhanced oxidative and thermal stability lead to longer grease life
- High Dropping Point of over 260°C (500°F) demonstrates the ability to handle high-temperatures
- Rust and corrosion protection leads to prolonged equipment life

### APPLICATIONS

SONIC® RED GUARD can be used in a variety of applications, including:

- High-temperatures
- Wet environments
- Severe load conditions
- Shock loading occurrences
- Chassis lubrication
- Wheel bearing greasing

### TECHNICAL PROPERTIES

PROPERTIES	TEST METHOD	RED GUARD
NLGI Grade	ASTM D217	2
NLGI Service Classification	ASTM D4950	GC-LB
Thickener	—	Lithium Complex
Colour	—	Red/Tacky
Penetration, 60 strokes (range)	ASTM D217	265-295
Dropping Point, Minimum °C (°F)	ASTM D2265	>260° (>500°)
Base Oil Viscosity, cSt @ 40°C	ASTM D445	220
Base Oil Viscosity, cSt @ 100°C	ASTM D445	18
Base Oil Viscosity Index	ASTM D2270	89
Timken Load	ASTM D2509	60
Four Ball Wear Scar	ASTM D2266	0.6 max
Four Ball EP Weld	ASTM D2596	400
Rust Protection	ASTM D1743	Pass
Copper Corrosion	ASTM D4048	1b
Water Washout % Loss @ 79°C (175°F)	ASTM 1264	<2%
Operating Temperature Range °C (°F)	—	-30° to 140° (-20° to 280°)

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

## COMPATIBILITY OF GREASES

Thickener Type	Aluminum Complex	Hydrated Calcium	Anhydrous Calcium	Calcium Complex	Calcium Sulfonate Complex	Clay	Lithium	Lithium Complex	Polyurea
Aluminum Complex		✗	✓	●	✗	✗	✗	✓	●
Hydrated Calcium	✗		✓	✗	✓	●	●	✓	●
Anhydrous Calcium	✓	✓		●	●	✓	✓	✓	✗
Calcium Complex	●	✗	●		✓	●	✗	✓	✓
Calcium Sulfonate Complex	✗	✓	●	✓		✗	✓	✓	✓
Clay	✗	●	✓	●	✗		●	✗	●
Lithium	✗	●	✓	✗	✓	●		✓	●
Lithium Complex	✓	✓	✓	✓	✓	✗	✓		✗
Polyurea	●	●	✗	✓	✓	●	●	✗	

**Note:** Greases of different thickeners should always be considered incompatible. Whenever possible the old product should be purged from the system, before introducing a new product. If thickeners are considered compatible, be aware that similar grease may contain clashing base oil or additive formulations. This chart is an adaptation of the grease compatibility chart outlined by the National Lubricating Grease Institute (NLGI) and does not take into consideration the variety of specialty synthetic greases and is intended as a guide only.

 Compatible   
  Requires Testing   
  Incompatible

## RECYCLING OF USED LUBRICANTS AND CONTAINERS

Please protect the environment when disposing of petroleum products. All products should be taken to an authorized collection facility or picked up by a qualified organization. This ensures the products will be disposed of in an environmentally sensitive manner. For additional information on used-oil recycling programs, please see the following:

- Saskatchewan – [www.usedoilrecyclingsk.com](http://www.usedoilrecyclingsk.com)
- Alberta – [www.usedoilrecyclingab.com](http://www.usedoilrecyclingab.com)
- British Columbia – [www.bcusedoil.com](http://www.bcusedoil.com)
- Manitoba – [www.usedoilrecycling.com/en/mb](http://www.usedoilrecycling.com/en/mb)

## PRODUCT SELECTION

PRODUCT SIZES	RED GUARD
10 x 400 g Tubes	✓
17 kg Pails	
55 kg Kegs	
180 kg Drums	

## MATERIAL SAFETY DATA SHEETS

Product-specific material safety data sheets (MSDS) can be obtained by contacting your local retail co-op or Federated Co-operatives Limited (see contact information below) or by going online at [coopconnection.ca](http://coopconnection.ca)

## CONTACT INFO

For more information on this or any other CO-OP<sup>®</sup> lubricant product, please contact your local retail co-operative or Federated Co-operatives Limited.

[petroadmin@fcL.crs](mailto:petroadmin@fcL.crs) • [www.coopfuel.ca](http://www.coopfuel.ca) • [www.coopag.ca](http://www.coopag.ca)

© CO-OP and the CO-OP logo are registered trademarks of TMC Distributing Ltd., Saskatoon S7K 3M9  
SONIC<sup>®</sup> Registered trademark of Federated Co-operatives Limited, Saskatoon S7K 3M9





# SONIC<sup>®</sup> POLY EXTREME

## POLYUREA HIGH TEMPERATURE GREASE

### PRODUCT DESCRIPTION

SONIC<sup>®</sup> POLY EXTREME is a premium non-soap polyurea-thickened grease. It has advantages over conventional soap thickened greases with superior resistance to oxidation, thermal breakdown and oil separation, resulting in longer grease life.

SONIC<sup>®</sup> POLY EXTREME qualifies for the highest NLGI performance level (GC-LB) for automotive chassis and wheel-bearing grease. It has excellent high-temperature rating, superior water and oxidation resistance.

### PERFORMANCE FEATURES

- Excellent extreme pressure performance, film strength and adhesion properties that reduce wear and maintenance costs
- The unique non-soap formulation gives it the ability to resist water spray-off and washout while staying in place under wet conditions
- A dropping point over 260°C (500°F) demonstrates this grease's ability to handle high temperatures.
- Excellent rust and corrosion prevention leads to prolonged protection under wet conditions

### APPLICATIONS

SONIC<sup>®</sup> POLY EXTREME can be used in a variety of applications including:

- High-temperatures
- Wet environments
- Electric motor bearings
- Ball and universal joints
- Chassis lubrication
- Wheel bearing greasing

### TECHNICAL PROPERTIES

PROPERTIES	TEST METHODS	POLY EXTREME
NLGI GRADE	ASTM D217	2
NLGI SERVICE CLASSIFICATION	ASTM D4950	GC-LB
Thickener	—	Polyurea
Colour	—	Blue
Dropping Point, Minimum °C (°F)	ASTM D566	>260° (>500°)
Penetration, 60 Strokes	ASTM D217	265-295
Base Oil Viscosity, cSt @ 40°C	ASTM D445	100
Base Oil Viscosity, cSt @ 100°C	ASTM D445	11
Base Oil Viscosity Index	ASTM D2270	95
Timken OK Load, kg/lb	ASTM D2509	45
Four Ball Wear Scar	ASTM D2266	0.6
Four Ball EP Weld	ASTM D2596	400
Four Ball Load Wear Index	ASTM D2596	56
Rust Protection	ASTM D1743	Pass
Oxidation Stability @ 100 hrs	ASTM D942	<5
Oil Separation % Separated	ASTM D1742	<1
Water Washout % Loss @ 79°C (175° F)	ASTM D1264	<5
Wheel Bearing Life, hrs.	ASTM D3527	240+
Low Temperature Torque @ -40° (-40°F)	ASTM D4693	7.5
Operating Temperature Range °C (°F)	—	-30° to 150° (-20° to 300°)

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

## COMPATIBILITY OF GREASES

Thickener Type	Aluminum Complex	Hydrated Calcium	Anhydrous Calcium	Calcium Complex	Calcium Sulfonate Complex	Clay	Lithium	Lithium Complex	Polyurea
Aluminum Complex		×	✓	●	×	×	×	✓	●
Hydrated Calcium	×		✓	×	✓	●	●	✓	●
Anhydrous Calcium	✓	✓		●	●	✓	✓	✓	×
Calcium Complex	●	×	●		✓	●	×	✓	✓
Calcium Sulfonate Complex	×	✓	●	✓		×	✓	✓	✓
Clay	×	●	✓	●	×		●	×	●
Lithium	×	●	✓	×	✓	●		✓	●
Lithium Complex	✓	✓	✓	✓	✓	×	✓		×
Polyurea	●	●	×	✓	✓	●	●	×	

**Note:** Greases of different thickeners should always be considered incompatible. Whenever possible the old product should be purged from the system, before introducing a new product. If thickeners are considered compatible, be aware that similar grease may contain clashing base oil or additive formulations. This chart is an adaptation of the grease compatibility chart outlined by the National Lubricating Grease Institute (NLGI) and does not take into consideration the variety of specialty synthetic greases and is intended as a guide only.

 Compatible  
  Requires Testing  
  Incompatible

If polyurea greases are replacing other soap type greases, the system should be totally purged of the other grease to avoid the potential of incompatibility and to get the full benefits of the polyurea grease technology.

## RECYCLING OF USED LUBRICANTS AND CONTAINERS

Please protect the environment when disposing of petroleum products. All products should be taken to an authorized collection facility or picked up by a qualified organization. This ensures the products will be disposed of in an environmentally sensitive manner. For additional information on used-oil recycling programs, please see the following:

- Saskatchewan – [www.usedoilrecyclingsk.com](http://www.usedoilrecyclingsk.com)
- Alberta – [www.usedoilrecyclingab.com](http://www.usedoilrecyclingab.com)
- British Columbia – [www.bcusedoil.com](http://www.bcusedoil.com)
- Manitoba – [www.usedoilrecycling.com/en/mb](http://www.usedoilrecycling.com/en/mb)

## PRODUCT SELECTION

PRODUCT SIZES	POLY EXTREME
10 x 400 g Tubes	✓
17 kg Pails	
55 kg Kegs	
180 kg Drums	

## MATERIAL SAFETY DATA SHEETS

Product-specific material safety data sheets (MSDS) can be obtained by contacting your local retail co-op or Federated Co-operatives Limited (see contact information below) or by going online at [coopconnection.ca](http://coopconnection.ca)

## CONTACT INFO

For more information on this or any other CO-OP<sup>®</sup> lubricant product, please contact your local retail co-operative or Federated Co-operatives Limited.

[petroadmin@fcL.crs](mailto:petroadmin@fcL.crs) • [www.coopfuel.ca](http://www.coopfuel.ca) • [www.coopag.ca](http://www.coopag.ca)

© CO-OP and the CO-OP logo are registered trademarks of TMC Distributing Ltd., Saskatoon S7K 3M9  
SONIC<sup>®</sup> Registered trademark of Federated Co-operatives Limited, Saskatoon S7K 3M9





# SONIC<sup>®</sup> SILVER<sup>®</sup> GUARD

SYNTHETIC BLEND GREASE

## PRODUCT DESCRIPTION

SONIC<sup>®</sup> SILVER<sup>®</sup> GUARD is a premium-performance, synthetic-blend, lithium-complex grease. Its synthetic composition and unique additive package allow it to maintain superior performance and pumpability in both high- and low-temperature applications.

SONIC<sup>®</sup> SILVER<sup>®</sup> GUARD qualifies for the highest NLGI performance level (GC-LB) for automotive chassis and wheel-bearing grease. The synthetic blend composition extends the overall life of the grease, reducing potential operational downtime.

## PERFORMANCE FEATURES

- Extended lubrication intervals
- Excellent rust and corrosion protection
- Protection against water washout
- Meets EP (extreme pressure) rating

## APPLICATIONS

SONIC<sup>®</sup> SILVER<sup>®</sup> GUARD can be used in a variety of applications, including:

- High-temperatures/low-temperatures
- Severe service conditions
- Chassis lubrication
- Wheel bearing greasing

## TECHNICAL PROPERTIES

PROPERTIES	TEST METHOD	SILVER GUARD
NLGI Grade	ASTM D217	1.5
NLGI Service Classification	ASTM D4950	GC-LB
Thickener	—	Lithium Complex
Color	—	Amber
Penetration, 60 strokes (range)	ASTM D217	290-320
Dropping Point, Minimum °C (°F)	ASTM D2265	260° (500°)
Base Oil Viscosity, cSt @ 40°C	ASTM D445	110
Base Oil Viscosity, cSt @ 100°C	ASTM D445	13
Base Oil Viscosity Index	ASTM D2270	113
Timken Load	ASTM D2509	60
Four Ball Wear Scar	ASTM D2266	0.6 max
Four Ball EP Weld	ASTM D2596	315
Four Ball Load Wear Index	ASTM D2596	45
Rust Protection	ASTM D1743	Pass
Copper Corrosion	ASTM D4048	1b
Oxidation Stability @100 hrs	ASTM D942	<5
Oil Separation % Separated	ASTM D1742	2
Water Washout % Loss @ 79°C (175°F)	ASTM 1264	<5
High Temp Wheel Bearing Life, hrs	ASTM D3527	>80
Low Temperature Torque @ -40°, N-m	ASTM D4693	<15.5
Operating Temperature Range °F	—	-30° to 140° (-20° to 280°)

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

## COMPATIBILITY OF GREASES

Thickener Type	Aluminum Complex	Hydrated Calcium	Anhydrous Calcium	Calcium Complex	Calcium Sulfonate Complex	Clay	Lithium	Lithium Complex	Polyurea
Aluminum Complex		✗	✓	●	✗	✗	✗	✓	●
Hydrated Calcium	✗		✓	✗	✓	●	●	✓	●
Anhydrous Calcium	✓	✓		●	●	✓	✓	✓	✗
Calcium Complex	●	✗	●		✓	●	✗	✓	✓
Calcium Sulfonate Complex	✗	✓	●	✓		✗	✓	✓	✓
Clay	✗	●	✓	●	✗		●	✗	●
Lithium	✗	●	✓	✗	✓	●		✓	●
Lithium Complex	✓	✓	✓	✓	✓	✗	✓		✗
Polyurea	●	●	✗	✓	✓	●	●	✗	

**Note:** Greases of different thickeners should always be considered incompatible. Whenever possible the old product should be purged from the system, before introducing a new product. If thickeners are considered compatible, be aware that similar grease may contain clashing base oil or additive formulations. This chart is an adaptation of the grease compatibility chart outlined by the National Lubricating Grease Institute (NLGI) and does not take into consideration the variety of specialty synthetic greases and is intended as a guide only.

 Compatible  
  Requires Testing  
  Incompatible

## RECYCLING OF USED LUBRICANTS AND CONTAINERS

Please protect the environment when disposing of petroleum products. All products should be taken to an authorized collection facility or picked up by a qualified organization. This ensures the products will be disposed of in an environmentally sensitive manner. For additional information on used-oil recycling programs, please see the following:

- Saskatchewan – [www.usedoilrecyclingsk.com](http://www.usedoilrecyclingsk.com)
- Alberta – [www.usedoilrecyclingab.com](http://www.usedoilrecyclingab.com)
- British Columbia – [www.bcusedoil.com](http://www.bcusedoil.com)
- Manitoba – [www.usedoilrecycling.com/en/mb](http://www.usedoilrecycling.com/en/mb)

## PRODUCT SELECTION

PRODUCT SIZES	SILVER GUARD
10 x 400 g Tubes	✓
17 kg Pails	
55 kg Kegs	✓
180 kg Drums	

## MATERIAL SAFETY DATA SHEETS

Product-specific material safety data sheets (MSDS) can be obtained by contacting your local retail co-op or Federated Co-operatives Limited (see contact information below) or by going online at [coopconnection.ca](http://coopconnection.ca)

## CONTACT INFO

For more information on this or any other CO-OP<sup>®</sup> lubricant product, please contact your local retail co-operative or Federated Co-operatives Limited.

[petroadmin@fcL.crs](mailto:petroadmin@fcL.crs) • [www.coopfuel.ca](http://www.coopfuel.ca) • [www.coopag.ca](http://www.coopag.ca)

SONIC SILVER<sup>®</sup> Registered trademark of Federated Co-operatives Limited, Saskatoon S7K 3M9  
 © CO-OP and the CO-OP logo are registered trademarks of TMC Distributing Ltd., Saskatoon S7K 3M9







# SONIC<sup>®</sup> MOLY GUARD

MOLYBDENUM DISULPHIDE SYNTHETIC BLEND GREASE

## PRODUCT DESCRIPTION

SONIC<sup>®</sup> MOLY GUARD is a premium-performance, synthetic-blend grease infused with 3% molybdenum disulphide (moly). Moly is one of the most effective dry film lubricating substances providing protection against shock loading and pressure that occurs typically in heavily loaded equipment.

SONIC<sup>®</sup> MOLY GUARD qualifies for the highest NLGI performance level (GC-LB) for automotive chassis and wheel-bearing grease. The synthetic blend composition and unique additive package maintains its performance and pumpability in both high- and low-temperature applications.

## PERFORMANCE FEATURES

- Extends lubrication intervals and reduces downtime
- Excellent rust and corrosion protection
- Provides water washout protection
- High heat resistance with a 260°C (550°F) dropping point
- Meets EP (extreme pressure) requirements to reduce wear
- Superior low-temperature pumpability
- Outstanding oxidation resistance

## APPLICATIONS

SONIC<sup>®</sup> MOLY GUARD™ can be used in a variety of applications, including:

- High-Temperatures/Low-Temperatures
- Severe service conditions
- Heavy loaded equipment
- Shock loading occurrences
- Chassis lubrication
- Wheel bearing greasing

## TECHNICAL PROPERTIES

PROPERTIES	TEST METHOD	MOLY GUARD
NLGI Grade	ASTM D217	1.5
NLGI Service Classification	ASTM D4950	GC-LB
Thickener	—	Lithium Complex
Molybdenum Disulfide, Weight %	—	3
Colour	—	Grey
Penetration, 60 strokes (range)	ASTM D217	290-320
Dropping Point, Minimum °C (°F)	ASTM D2265	260 ° (500°)
Base Oil Viscosity, cSt @ 40°C	ASTM D445	110
Base Oil Viscosity, cSt @ 100°C	ASTM D445	13
Base Oil Viscosity Index	ASTM D2270	113
Timken Load	ASTM D2509	60
Four Ball Wear Scar	ASTM D2266	0.6 max
Four Ball EP Weld	ASTM D2596	400
Four Ball Load Wear Index	ASTM D2596	56
Rust Protection	ASTM D1743	Pass
Copper Corrosion	ASTM D4048	1b
Oxidation Stability @100 hrs	ASTM D942	<5
Oil Separation % Separated	ASTM D1742	2
Water Washout % Loss @ 79° C (175°F)	ASTM 1264	<5
High Temp Wheel Bearing Life, hrs	ASTM D3527	>80
Low Temperature Torque @ -40°, N-m	ASTM D4693	<15.5
Operating Temperature Range °C (°F)	—	-30°to 140° (-20° to 280°)

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

## COMPATIBILITY OF GREASES

Thickener Type	Aluminum Complex	Hydrated Calcium	Anhydrous Calcium	Calcium Complex	Calcium Sulfonate Complex	Clay	Lithium	Lithium Complex	Polyurea
Aluminum Complex		✗	✓	●	✗	✗	✗	✓	●
Hydrated Calcium	✗		✓	✗	✓	●	●	✓	●
Anhydrous Calcium	✓	✓		●	●	✓	✓	✓	✗
Calcium Complex	●	✗	●		✓	●	✗	✓	✓
Calcium Sulfonate Complex	✗	✓	●	✓		✗	✓	✓	✓
Clay	✗	●	✓	●	✗		●	✗	●
Lithium	✗	●	✓	✗	✓	●		✓	●
Lithium Complex	✓	✓	✓	✓	✓	✗	✓		✗
Polyurea	●	●	✗	✓	✓	●	●	✗	

**Note:** Greases of different thickeners should always be considered incompatible. Whenever possible the old product should be purged from the system, before introducing a new product. If thickeners are considered compatible, be aware that similar grease may contain clashing base oil or additive formulations. This chart is an adaptation of the grease compatibility chart outlined by the National Lubricating Grease Institute (NLGI) and does not take into consideration the variety of specialty synthetic greases and is intended as a guide only.

 Compatible  
  Requires Testing  
  Incompatible

## RECYCLING OF USED LUBRICANTS AND CONTAINERS

Please protect the environment when disposing of petroleum products. All products should be taken to an authorized collection facility or picked up by a qualified organization. This ensures the products will be disposed of in an environmentally sensitive manner. For additional information on used-oil recycling programs, please see the following:

- Saskatchewan – [www.usedoilrecyclingsk.com](http://www.usedoilrecyclingsk.com)
- Alberta – [www.usedoilrecyclingab.com](http://www.usedoilrecyclingab.com)
- British Columbia – [www.bcusedoil.com](http://www.bcusedoil.com)
- Manitoba – [www.usedoilrecycling.com/en/mb](http://www.usedoilrecycling.com/en/mb)

## PRODUCT SELECTION

PRODUCT SIZES	MOLY GUARD
10 x 400 g Tubes	✓
17 kg Pails	
55 kg Kegs	✓
180 kg Drums	✓

## MATERIAL SAFETY DATA SHEETS

Product-specific material safety data sheets (MSDS) can be obtained by contacting your local retail co-op or Federated Co-operatives Limited (see contact information below) or by going online at [coopconnection.ca](http://coopconnection.ca)

## CONTACT INFO

For more information on this or any other CO-OP<sup>®</sup> lubricant product, please contact your local retail co-operative or Federated Co-operatives Limited.

[petroadmin@fcL.crs](mailto:petroadmin@fcL.crs) • [www.coopfuel.ca](http://www.coopfuel.ca) • [www.coopag.ca](http://www.coopag.ca)

SONIC<sup>®</sup> <sup>®</sup>Registered trademark of Federated Co-operatives Limited, Saskatoon S7K 3M9  
<sup>®</sup>CO-OP and the CO-OP logo are registered trademarks of TMC Distributing Ltd., Saskatoon S7K 3M9





# SONIC® FLOW-RITE

LOW-TEMPERATURE, SEMI-FLUID GREASE

## PRODUCT DESCRIPTION

SONIC® FLOW-RITE is a line of premium lithium-based low-temperature (NLGI #0) and semi-fluid (NLGI #00) greases.

FLOW-RITE NLGI # 0 is a multi-purpose, low-temperature grease designed for both manual and automated greasing systems (where required by the manufacturer).

FLOW-RITE NLGI #00 is a semi-fluid pourable grease typically consumed in centralized greasing systems on commercial equipment and in truck wheel hub assemblies.

## PERFORMANCE FEATURES

- Excellent in high-pressure applications
- Excellent pump ability in cold weather
- Superior performance in conditions where a semi-fluid grease NLGI #0 & #00 is required
- Extreme-pressure additives ensure protection under heavy loads

## APPLICATIONS

SONIC® FLOW-RITE can be used in a variety of applications, including:

- Low-Temperatures
- Manual and automated grease systems
- Automated chassis lubrication systems
- Wheel hub assemblies
- Street sweepers

## TECHNICAL PROPERTIES

PROPERTIES	TEST METHOD	FLOW-RITE	FLOW-RITE
NLGI Grade	ASTM D217	#0	#00
NLGI Service Classification	ASTM D4950	LB	LB
Thickener	—	Lithium 12	Lithium 12
Colour	—	Amber	Amber
Penetration, 60 strokes (range)	ASTM D217	355-385	400-430
Dropping Point, Minimum °C (°F)	ASTM D2265	>160° (>320°)	>320°
Base Oil Viscosity, cSt @ 40°C	ASTM D445	100	60
Base Oil Viscosity, cSt @ 100°C	ASTM D445	9	7
Base Oil Viscosity Index	ASTM D2270	45	42
Timken Load	ASTM D2509	40	35
Four Ball Wear Scar	ASTM D2266	0.6 max	0.6 max
Four Ball EP Weld	ASTM D2596	250	250
Four Ball Load Wear Index	ASTM D2596	30	30
Rust Protection	ASTM D1743	Pass	Pass
Copper Corrosion	ASTM D4048	1b	1b
Oxidation Stability @100 hrs	ASTM D942	<5	<5
Operating Temperature Range °C (°F)	—	-30° to 120°C (-20° to 250°)	-40° to 110° (-40° to 230°)

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

## COMPATIBILITY OF GREASES

Thickener Type	Aluminum Complex	Hydrated Calcium	Anhydrous Calcium	Calcium Complex	Calcium Sulfonate Complex	Clay	Lithium	Lithium Complex	Polyurea
Aluminum Complex		✗	✓	●	✗	✗	✗	✓	●
Hydrated Calcium	✗		✓	✗	✓	●	●	✓	●
Anhydrous Calcium	✓	✓		●	●	✓	✓	✓	✗
Calcium Complex	●	✗	●		✓	●	✗	✓	✓
Calcium Sulfonate Complex	✗	✓	●	✓		✗	✓	✓	✓
Clay	✗	●	✓	●	✗		●	✗	●
Lithium	✗	●	✓	✗	✓	●		✓	●
Lithium Complex	✓	✓	✓	✓	✓	✗	✓		✗
Polyurea	●	●	✗	✓	✓	●	●	✗	

**Note:** Greases of different thickeners should always be considered incompatible. Whenever possible the old product should be purged from the system, before introducing a new product. If thickeners are considered compatible, be aware that similar grease may contain clashing base oil or additive formulations. This chart is an adaptation of the grease compatibility chart outlined by the National Lubricating Grease Institute (NLGI) and does not take into consideration the variety of specialty synthetic greases and is intended as a guide only.

 Compatible    
  Requires Testing    
  Incompatible

## RECYCLING OF USED LUBRICANTS AND CONTAINERS

Please protect the environment when disposing of petroleum products. All products should be taken to an authorized collection facility or picked up by a qualified organization. This ensures the products will be disposed of in an environmentally sensitive manner. For additional information on used-oil recycling programs, please see the following:

- Saskatchewan – [www.usedoilrecyclingsk.com](http://www.usedoilrecyclingsk.com)
- Alberta – [www.usedoilrecyclingab.com](http://www.usedoilrecyclingab.com)
- British Columbia – [www.bcusedoil.com](http://www.bcusedoil.com)
- Manitoba – [www.usedoilrecycling.com/en/mb](http://www.usedoilrecycling.com/en/mb)

## PRODUCT SELECTION

PRODUCT SIZES	FLOW-RITE #0	FLOW-RITE #00
10 x 400 g Tubes	✓	
17 kg Pails		✓
55 kg Kegs		✓
180 kg Drums		

## MATERIAL SAFETY DATA SHEETS

Product-specific material safety data sheets (MSDS) can be obtained by contacting your local retail co-op or Federated Co-operatives Limited (see contact information below) or by going online at [coopconnection.ca](http://coopconnection.ca)

## CONTACT INFO

For more information on this or any other CO-OP<sup>®</sup> lubricant product, please contact your local retail co-operative or Federated Co-operatives Limited.

[petroadmin@fcL.crs](mailto:petroadmin@fcL.crs) • [www.coopfuel.ca](http://www.coopfuel.ca) • [www.coopag.ca](http://www.coopag.ca)

SONIC<sup>®</sup> <sup>®</sup>Registered trademark of Federated Co-operatives Limited, Saskatoon S7K 3M9  
<sup>®</sup>CO-OP and the CO-OP logo are registered trademarks of TMC Distributing Ltd., Saskatoon S7K 3M9





# SONIC<sup>®</sup> GEAR BOX GREASE

## SEMI-FLUID EP GREASE

### PRODUCT DESCRIPTION

SONIC<sup>®</sup> GEAR BOX GREASE is a premium-performance, NLGI #000 semi-fluid lithium grease that is designed to protect critical components against rust, wear and oxidation.

SONIC<sup>®</sup> GEAR BOX GREASE assists in reducing lubricant consumption in enclosed gear-cases when seals fail to retain conventional fluids. These gear-cases can typically be found in irrigation equipment and in underground mining applications.

### PERFORMANCE FEATURES

- Semi-fluid grease
- Ideal for wet environments, resists water wash-off
- High-dropping point
- Remains stable at high temperatures
- Superior protection against rust, wear and oxidation from attacking critical equipment components

### APPLICATIONS

SONIC<sup>®</sup> GEAR BOX GREASE can be used in a variety of applications, including:

- High-Temperatures
- Irrigation system gear boxes
- Leaky speed reducers
- Gear and chain cases
- Underground mining applications

### TECHNICAL PROPERTIES

PROPERTIES	TEST METHOD	GEAR BOX GREASE
NLGI Grade	ASTM D217	#000
Thickener	—	Lithium
Colour	—	Red
Penetration, 60 strokes (range)	ASTM D217	445-475
Dropping Point, Minimum °C (°F)	ASTM D2265	>160° (>320°)
Base Oil Viscosity, cSt @ 40°C	ASTM D445	355
Base Oil Viscosity, cSt @ 100°C	ASTM D445	24
Base Oil Viscosity Index	ASTM D2270	85
Timken Load	ASTM D2509	40
Four Ball Wear Scar	ASTM D2266	0.6 max
Four Ball EP Weld	ASTM D2596	250
Four Ball Load Wear Index	ASTM D2596	30
Rust Protection	ASTM D1743	Pass
Copper Corrosion	ASTM D4048	1b
Operating Temperature Range °C (°F)	—	-30° to 110° (-20° to 230°)

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

## COMPATIBILITY OF GREASES

Thickener Type	Aluminum Complex	Hydrated Calcium	Anhydrous Calcium	Calcium Complex	Calcium Sulfonate Complex	Clay	Lithium	Lithium Complex	Polyurea
Aluminum Complex		✗	✓	●	✗	✗	✗	✓	●
Hydrated Calcium	✗		✓	✗	✓	●	●	✓	●
Anhydrous Calcium	✓	✓		●	●	✓	✓	✓	✗
Calcium Complex	●	✗	●		✓	●	✗	✓	✓
Calcium Sulfonate Complex	✗	✓	●	✓		✗	✓	✓	✓
Clay	✗	●	✓	●	✗		●	✗	●
Lithium	✗	●	✓	✗	✓	●		✓	●
Lithium Complex	✓	✓	✓	✓	✓	✗	✓		✗
Polyurea	●	●	✗	✓	✓	●	●	✗	

**Note:** Greases of different thickeners should always be considered incompatible. Whenever possible the old product should be purged from the system, before introducing a new product. If thickeners are considered compatible, be aware that similar grease may contain clashing base oil or additive formulations. This chart is an adaptation of the grease compatibility chart outlined by the National Lubricating Grease Institute (NLGI) and does not take into consideration the variety of specialty synthetic greases and is intended as a guide only.

 Compatible   
  Requires Testing   
  Incompatible

## RECYCLING OF USED LUBRICANTS AND CONTAINERS

Please protect the environment when disposing of petroleum products. All products should be taken to an authorized collection facility or picked up by a qualified organization. This ensures the products will be disposed of in an environmentally sensitive manner. For additional information on used-oil recycling programs, please see the following:

- Saskatchewan – [www.usedoilrecyclingsk.com](http://www.usedoilrecyclingsk.com)
- Alberta – [www.usedoilrecyclingab.com](http://www.usedoilrecyclingab.com)
- British Columbia – [www.bcusedoil.com](http://www.bcusedoil.com)
- Manitoba – [www.usedoilrecycling.com/en/mb](http://www.usedoilrecycling.com/en/mb)

## PRODUCT SELECTION

PRODUCT SIZES	SONIC® GEAR BOX GREASE
10 x 400 g Tubes	
17 kg Pails	✓
55 kg Kegs	
180 kg Drums	

## MATERIAL SAFETY DATA SHEETS

Product-specific material safety data sheets (MSDS) can be obtained by contacting your local retail co-op or Federated Co-operatives Limited (see contact information below) or by going online at [coopconnection.ca](http://coopconnection.ca)

## CONTACT INFO

For more information on this or any other CO-OP® lubricant product, please contact your local retail co-operative or Federated Co-operatives Limited.

[petroadmin@fcL.crs](mailto:petroadmin@fcL.crs) • [www.coopfuel.ca](http://www.coopfuel.ca) • [www.coopag.ca](http://www.coopag.ca)

SONIC® Registered trademark of Federated Co-operatives Limited, Saskatoon S7K 3M9  
 © CO-OP and the CO-OP logo are registered trademarks of TMC Distributing Ltd., Saskatoon S7K 3M9

