



## Product Data Sheet

### Synthetic LCS 1.5 Industrial Lubricating Grease

#### Description

Nemco Synthetic LCS Grease is an industrial synthetic lithium-complex, extreme pressure grease containing higher-viscosity synthetic base oil and is designed for use on plain and anti-friction bearings in all automotive, farm equipment and industrial machinery. Synthetic LCS grease is an NLGI #1.5 grade of grease. This multi-purpose grease has a high dropping point in excess of 260°C (500°F) which ensures retention where high temperatures are encountered, as well as exhibiting outstanding low temperature performance to temperatures down to -40°C (-40°F).

This product is formulated with 100% synthetic hydrocarbon fluids combined with a special additive package which ensures high film strength, extreme pressure and anti-wear properties. The high quality synthetic base fluids provide excellent natural oxidation inhibition. This combined with effective anti-oxidants as well as corrosion inhibitors provides extra stability under storage and extreme service conditions.

#### Features and Benefits

- EP Performance; Superior extreme pressure properties reduce wear and maintenance costs.
- Long Life; Enhanced oxidative and thermal stability for long service life.
- High Viscosity; viscosity of 440 cSt @40C makes it suitable for high load service.
- High Drop Point; a drop point over 260°C demonstrates ability to handle high temperatures.
- Synthetic; formulated with 100% PAO base oil to deliver outstanding low temperature performance.

#### Applications

Nemco Synthetic LCS 1.5 is intended for severe applications requiring extended service at high temperatures and where frequent replenishment is not possible. Synthetic LCS applications include automotive, farm equipment, and industrial machinery.

#### Availability and product codes

Pack size	10x1 tube case	35lb pail	120lb keg	400lb drum
Synthetic LCS 1.5	GRGRZ0010	GRGRZ0041	GRGRZ0078*	GRGRZ0099*
Availability	Year round / *Contact a Technical Sales Representative			

#### Use and Storage

To get the best performance from your equipment ensure products meet or exceed manufacturing requirements. Lubricants typically have a shelf life of 5 years under ideal storage conditions. Keep containers in good condition and away from moisture. Keep closures securely in place to prevent exposure to air which may cause the product to dry out. Where possible, avoid storage in areas where the temperature fluctuates between extreme highs and lows.

**Typical physical characteristics – Synthetic LCS 1.5 Grease**

Properties	Method	EP1.5
NLGI Grade	ASTM D217	1.5
Soap/Thickener Type		Lithium Complex
Texture	Visual	Smooth
Colour	Visual	Purple
Worked Penetration, 25°C (77°F), mm/10, 60 strokes	ASTM D217	290-320
Dropping Point, °C (°F)	ASTM D2265	260(500)
Oil Separation, Mass% (maximum)	ASTM D1742	10
Viscosity of Oil, cSt @ 40°C	ASTM D445	440-460
Viscosity of Oil, cSt @ 100°C	ASTM D445	42-50
Four-Ball Wear Test, Scar, mm	ASTM D2266	0.60
Four-Ball Weld Point, kg (minimum)	ASTM D2596	250
Four-Ball Load-Wear Index, kgf (minimum )	ASTM D2596	90
Corrosion Prevention, rating	ASTM D1743	Pass
Pressure Vessel Oxidation, PSI drop 100hrs	ASTM D942	7
Timken OK Load, kg (lb) (minimum)	ASTM D2509	25(55)
Water Washout, @ 79°C (175°F), % Loss	ASTM D1264	5
Operating Temperature Range		-37°C to 177°C (-35°F to 350°F)

These characteristics are typical of current production, variations in these characteristics may occur.

**Health, Safety, & Environment**

GHS compliant Safety Data Sheets are available at [nemco.ca](http://nemco.ca) under 'Safety Data Sheets'. For SDS in French, please contact [info@nemco.ca](mailto:info@nemco.ca). This material is classified under WHMIS 2015. The SDS contains valuable information critical to the safe handling and proper use of the product. Always take used grease to an authorized collection point. Avoid discharge into the environment. As with any lubricant, keep out of reach of children and animals.

**Quality**

Nemco works with respected industry suppliers and is an active member of ILMA. Nemco Resources Limited manufacturing facility in Winnipeg, Manitoba is proud to be certified to ISO 9001. For questions regarding quality, please contact our Technical Sales representatives.