

CITGO LITHOPLEX® MP, RT & ST GREASES



Date 1/09

- DESCRIPTION:** The CITGO Lithoplex grease family represents the latest technology in greases. All Lithoplex greases contain extreme pressure (EP) additives, anti-wear (AW) additives, oxidation inhibitors, and corrosion inhibitors. They are more suitable for use at higher temperatures than conventional soap greases.
- QUALITIES:** CITGO Lithoplex Greases of all grades and types are multipurpose greases incorporating the following characteristics:
- Excellent Work Stability** – Extremely stable lithium complex formula retains its consistency even in the most severe service.
 - Extreme Pressure and Anti-Wear Protection** – Additives provide excellent extreme pressure and anti-wear protection under severe conditions.
 - Corrosion Protection** – Lithoplex greases resist corrosion, thereby extending equipment life. This is of particular importance in applications where moisture is present.
 - Oxidation Resistant Formulation** – Lithoplex greases contain oxidation inhibitors to extend grease life and protect the application for longer periods.
- APPLICATIONS:**
- Lithoplex MP** greases are compatible with conventional lithium soap greases. They contain extreme pressure (EP) additives and Molybdenum Disulfide (moly) to minimize wear in heavily loaded components. These greases satisfy a wide range of industrial and automotive applications including bearings, ball joints and bushings. Three NLGI consistencies are available.
- Lithoplex RT** greases provide excellent performance in applications where good adhesion and water resistance are critical. Their red color and tacky, moly-free formula make them ideal for many problem applications. They are excellent for use in many industrial, agricultural, and automotive applications.
- Lithoplex ST** is a high-temperature grease that provides exceptional water resistance and stability that is critical in many steel mill applications. Lithoplex ST contains heavy base oils to provide for good load and wear protection. This product provides excellent protection against corrosion making Lithoplex ST a good choice in many high moisture environments.
- Lithoplex MP 1, MP 2, RT 1 and RT 2** meet the ASTM D 4950 requirements for Wheel Bearing Grease Category GC and Chassis Grease Category LB. Labels display the NLGI Certification Mark GC-LB for Automotive Wheel Bearing & Chassis Lubricant.



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Date 1/09 - (Continued)

TYPICAL PROPERTIES:

CITGO LITHOPLEX® MP, RT & ST GREASES

Product	Lithoplex MP0	Lithoplex MP1	Lithoplex MP2	Lithoplex RT1	Lithoplex RT2	Lithoplex ST2
Material Code	655342001	655341001	655340001	655343001	655344001	655367001
NLGI Grade	0	1	2	1	2	2
Worked 60 Penetration	355-385	310-340	265-295	310-340	265-295	265-295
Grease Type	Lithium Complex	Lithium Complex	Lithium Complex	Lithium Complex	Lithium Complex	Lithium Complex
Color	Gray	Gray	Gray	Red	Red	Green
Texture	Smooth, Adhesive	Smooth, Adhesive	Smooth, Adhesive	Smooth, Adhesive	Smooth, Adhesive	Smooth, Buttery
Four-Ball Weld, ASTM D 2596, kgf	315	315	315	250	250	500
Four-Ball Load Wear Index, ASTM D 2596	55	58	58	48	48	62
Four-Ball Wear, ASTM D 2266, mm	0.50	0.45	0.45	0.42	0.42	0.40
Rust Protection, ASTM D 1743	Pass	Pass	Pass	Pass	Pass	Pass
Water Washout, 175°F, ASTM D 1264, % Loss	8.3	5.0	2.0	5.3	2.0	1.4
Dropping Point, ASTM D 2265, °F	—	500	530	500	530	430
Oil Viscosity at 40°C, cSt.	232	232	232	533	533	540
at 100°C, cSt.	17.7	17.7	17.7	37.4	37.4	30

TYPICAL SPECIFICATIONS:

CITGO LITHOPLEX® ST NO. 1M

Production Code	655406001
NLGI Consistency Number	1
Thickener	Lithium Complex
Texture	Smooth, Adhesive
Color, Observed	Dark Green
Worked 60 Penetration, ASTM D 217	310-340
Rust Prevention, ASTM D 1743, rating	Pass
Timken OK Load, ASTM D 2509, lb.	60
Four-Ball Wear, ASTM D 2266, mm	0.42
Four-Ball EP Weld, ASTM D 2596, kgf	500
Four-Ball LWI, ASTM D 2596	62
Four-Ball LNSL, ASTM D 2596, kgf	100

CHARACTERISTICS OF OIL

Viscosity, at 100°C, cSt.	23.7
at 40°C, cSt.	436
Viscosity Index	62

FEATURES:

- (1) Premium quality lithium complex grease.
- (2) Fully additive treated with EP/antiwear, rust and oxidation inhibitors.
- (3) Water resistant.