

CITGO LITHOPLEX® CM & HM GREASES



Date 08/14

- DESCRIPTION:** CITGO Lithoplex CM and Lithoplex HM greases provide outstanding protection in construction and mining applications where exceptional wear protection is required. These premium quality Lithium Complex greases contain Molybdenum Disulfide for additional protection in harsh environments.
- QUALITIES:** 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 suitable for use at higher temperatures than conventional soap greases.
- Extreme Pressure and Wear Protection:** Lithoplex CM and Lithoplex HM provide excellent extreme pressure and anti-wear protection. Lithoplex CM contains 3% Moly Disulfide and Lithoplex HM contains 5% Moly Disulfide to provide additional protection in harsh environments. These products are a good choice in applications where metal to metal friction and high loads exist.
- Corrosion Protection:** Lithoplex CM and HM are formulated to resist corrosion, thereby extending equipment life. This is of particular importance in applications where moisture is present.
- Oxidation Resistant Formulation:** These greases contain oxidation inhibitors to extend grease life and protect the application for longer periods.
- Polymer Fortified:** Lithoplex CM and Lithoplex HM contain polymer for improved water resistance and improved adhesion.
- APPLICATIONS:** Lithoplex CM contains three percent Moly Disulfide and Lithoplex HM contains five percent Moly Disulfide to meet equipment manufacturer’s requirements. Applications include construction equipment, mining equipment, fifth wheels, industrial applications, etc.
- APPROVALS:**
- |  |                |
|--|----------------|
| Liebherr Mining Truck Auto Lube Systems    | Lithoplex CM 1 |
|  | Lithoplex HM 1 |
| State of North Carolina 9150-1D Category 3 | Lithoplex CM 2 |

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**TYPICAL PROPERTIES:**

**CITGO LITHOPLEX® CM & HM GREASES**

Product	Lithoplex CM1	Lithoplex CM2	Lithoplex HM1	Lithoplex HM2
<b>NLGI Grade</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>
Material Code	655351001	655352001	655356001	655357001
Worked-60 Penetration	310-340	265-295	310-340	265-295
Grease Type	Lithium Complex	Lithium Complex	Lithium Complex	Lithium Complex
Color	Gray	Gray	Gray	Gray
Texture	Smooth, Adhesive	Smooth, Adhesive	Smooth, Adhesive	Smooth, Adhesive
Four-Ball Weld, ASTM D 2596, kgf	400	400	500	500
Four-Ball Load Wear Index, ASTM D 2596	64	64	64	64
Four-Ball Wear, ASTM D 2266, mm	0.45	0.45	0.40	0.40
Rust Protection, ASTM D 1743	Pass	Pass	Pass	Pass
Water Washout, 175°F, ASTM D 1264, % Loss	2.0	2.0	2.5	2.0
Dropping Point, ASTM D 2265, °F	500	500	500	500
Oil Viscosity at 40°C, cSt.	286	376	376	376
Oil Viscosity at 100°C, cSt.	21.9	26.1	26.1	26.1
Molybdenum Disulfide, %	3	3	5	5