



CITGO® Lithoplex® PL Greases

OVERVIEW



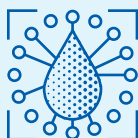
- Designed to provide consistent lubricant flow for optimal protection of frac pump plungers.
- Developed with unique semi-fluid formulas to provide exceptional flow performance.
- Properly lubricated plungers can operate at peak performance, maximizing uptime.

FEATURES & BENEFITS



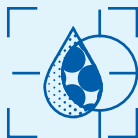
- Superior lubricant barrier to prevent seal failures.
- Protects against friction and heat damage.
- Exceptional extreme pressure (EP) protection.
- Excellent anti-wear prolongs plunger life.
- Outstanding resistance to rust and corrosion on copper and brass.
- Performs well over a wide temperature range.

APPLICATIONS



- For use with frac pump plungers where excellent adhesion, pumpability, corrosion resistance, wear and extreme pressure protection are needed.
- Designed to work with automatic lubricators.
- Refer to equipment owner's manual for proper lubricant recommendation.

PROPERTIES



Typical Properties for CITGO Lithoplex PL Greases:

Material Code	655538001	655539001	655540001
NLGI Grade	000	00	0
Thickener Type	Lithium Complex	Lithium Complex	Lithium Complex
Color	Green	Green	Green
Texture	Smooth, Short Fiber	Smooth, Short Fiber	Smooth, Short Fiber
Worked Penetration, ASTM D217	445-475	400-430	355-385
Four-Ball Weld, ASTM D2596, kgf	315	315	315
Four-Ball Wear, ASTM D2266, mm	0.40	0.40	0.40
Copper Corrosion, ASTM D4048	1a	1a	1a
Rust Prevention, ASTM D1743, Rating	Pass	Pass	Pass
US Steel Mobility @ 0°F, gpm	77	71	54
Approximate Temperature Range, °F(°C)	0 to 325 (-18 to 163)	0 to 325 (-18 to 163)	0 to 325 (-18 to 163)
Base Oil Viscosity @ 40°C, cSt	320	320	320

CITGO and Lithoplex are registered trademarks of CITGO Petroleum Corporation. All other registered trademarks or trademarks are the property of their respective owners. Values shown are typical values only and do not constitute a specification. The information contained herein is subject to change without notice.