



L-428 Tough Tac® Grease

Kendall® L-428 Tough Tac Grease is a high-performance, multipurpose, extreme-pressure (EP) lithium complex grease developed to satisfy the severe lubrication requirements of construction and off-road equipment. It is particularly recommended for use in off-highway trucks and heavy equipment such as bulldozers, motor graders, pipe layers, scrapers, skidders, wheel loaders and soil compactors operating under heavy or shock load conditions.

L-428 Tough Tac Grease is manufactured with high-quality, heavy base oils thickened with a lithium complex soap. It contains an extreme-pressure additive, a tackifier, 3% molybdenum disulfide (moly), and rust and oxidation inhibitors. It provides excellent wear protection and has high load-carrying capacity for extra protection against heavy or shock loading. It stays put, will not soften when worked, and resists water washout. It protects against rust and corrosion and is suitable for use over a wide range of operating temperatures.

Applications

- Chassis parts and wheel bearings on construction, mining and other heavy mobile equipment
- Universal joints, constant-velocity joints, brake self adjusting screws and clutch release bearings on off-highway trucks and other heavy equipment
- Underground mining equipment, including belt conveyors, hoists, cutting machines, loaders and continuous and long-wall miners
- Tractor-trailer fifth wheels
- Heavily loaded plain and rolling-element bearings in industrial equipment where the manufacturer specifies a high-temperature, extreme-pressure grease with 3% moly

L-428 Tough Tac Grease meets the requirements of the following OEM specification:

- Caterpillar Multipurpose Molybdenum Grease (MPGM)

Features/Benefits

- Meets Caterpillar requirements for 3% moly grease
- High dropping point (>500°F)
- High load-carrying capacity
- Excellent wear protection
- Excellent resistance to water washout

**Extreme-Pressure
Lithium Complex
Grease With
3% Moly For
Off-Road Equipment**

**Customer Service
Number:
1-800-368-7128**

**Technical Hot Line:
1-800-368-1267**

**International
Customer Service:
+1-832-486-3363
+1-832-486-3870**

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- Excellent resistance to separation
- Protects against rust and corrosion
- Adhesive; stays put

L-428 Tough Tac® Grease

Typical Properties

NLGI Grade	2
Thickener	Lithium Complex
Color	Gray-Black
Dropping Point, °C (°F)	>260 (>500)
Density, lbs/gal	7.88
Penetration, Worked (60 strokes), ASTM D217	265-295
Texture	Tacky
Filler, Molybdenum Disulfide, wt %	3
Copper Corrosion, ASTM D4048	1b
Four-Ball EP, ASTM D2596, Weld Load, kgf	400
Four-Ball Wear, ASTM D2266, Scar Diameter, mm	0.60
Oxidation Stability, ASTM D942, 100 hours,	
Pressure Drop, psi (kPa)	5 (35)
Rust Prevention, ASTM D1743	Pass
Timken OK Load, ASTM D2509, lb	55
Water Washout Resistance, ASTM D1264, Wt Loss @ 175°F, %	5
Base Oil Properties,	
Viscosity (with polymer),	
cSt @ 40°C	460
cSt @ 100°C	30.0
SUS @ 100°F	2,470
SUS @ 210°F	147
Viscosity Index	92
Usable Temperature Range,	
°C	-23 to 204
°F	-10 to 400

Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3.conocophillips.com/NetMSDS>.

Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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