



Guardian Grease

Moly Grease • Heavy Duty • Super Tacky

Rev: 2026-06-27

DESCRIPTION

TRIAX Guardian Grease is a heavy-duty, molybdenum-fortified lithium-complex grease built for the most punishing construction, agriculture, and off-road service — where constant high loads, shock loading, heat, and water are the rule rather than the exception. Its high-moly extreme-pressure formulation lays down a tenacious, load-bearing film that keeps protecting metal surfaces even when the oil film is squeezed out, providing dry-film backup under shock and boundary-lubrication conditions. The super-tacky lithium-complex structure resists pounding-out, sling-off, and water washout, holding firmly in place on pivots, bearings, bushings, chassis points, fifth wheels, and u-joints. The result is exceptional mechanical and thermal stability, long-lasting corrosion protection, and dependable wear control across a wide operating temperature range in the most severe heavy-duty service.

**EXCEPTIONAL STABILITY UNDER HIGH & SHOCK LOADS • MINING • QUARRYING • ROCK CRUSHING
• HEAVY-DUTY OFF-ROAD**

PERFORMANCE HIGHLIGHTS

- **High molybdenum (MoS₂) content** provides dry-film, boundary-layer protection that keeps metal surfaces apart under shock loads and extreme pressure.
- **Outstanding extreme-pressure performance** — up to 700+ kgf Four-Ball weld point and a wear scar as low as 0.49 mm for dependable load-bearing capacity.
- **Super-tacky lithium-complex structure** clings tenaciously to components, resisting sling-off, pounding-out, and separation in the most severe service.
- **Excellent mechanical and shear stability** — viscosity stabilizers prevent softening and breakdown under continuous working and vibration.
- **Superior thermal stability** with a high dropping point of 280 °C (536 °F) for reliable performance in high-heat service.
- **Superior water resistance** — under 1.5% water washout, guarding against rust, corrosion, and contamination (passes ASTM D1743).
- **Wide operating temperature range** — from -30 °F up to 400 °F, depending on grade.
- **Available in NLGI 1 and NLGI 2 grades** to match centralized systems, pumpability needs, and ambient conditions.

APPLICATIONS

TRIAX Guardian Grease is engineered for severe-service, high- and shock-load applications across construction, agriculture, transportation, mining, quarrying, and rock crushing and processing. It excels on heavily loaded components — pivots, roller and plain bearings, bushings, chassis points, fifth wheels, u-joints, and gear assemblies — and on heavy-duty off-road and material-handling equipment that runs under constant pounding and contamination. Available in NLGI 1 and NLGI 2 grades.

Construction	Transportation	Agriculture	Bearings & Gear Assemblies
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TYPICAL PROPERTIES

Parameter (Test Method)	NLGI 1	NLGI 2
Appearance (Visual)	Smooth, tacky, homogeneous	Smooth, tacky, homogeneous
Color (Visual)	Black	Black
Thickener Type	Lithium Complex	Lithium Complex
Base Oil Viscosity @ 40 °C, mm ² /s (EN ISO 3104)	227	145
Base Oil Viscosity @ 100 °C, mm ² /s (EN ISO 3104)	15	10.5
NLGI Grade (ASTM D217)	1	2
Operating Temperature Range	-30 to 400 °F	-20 to 350 °F
Dropping Point, °C (ISO 6299)	280	280
Timken OK Load, lb	40 min.	40 min.
Rust Test (ASTM D1743)	Pass	Pass
Water Washout @ 79 °C, wt.% loss (ISO 11009)	< 1.5%	< 1.5%
Four-Ball EP Weld Point, kgf (ASTM D2596)	655	700+
Four-Ball Wear Scar, mm (ASTM D2266)	0.55	0.49

These are typical values. There may be small differences in actual values which are a normal part of production and do not affect product performance or specification compliance.