



SPHERON HT GREASE

Wheel Bearing · High-Temperature · Tacky Lithium Complex Grease

Rev: 2026-07-04

DESCRIPTION

TRIAx Spheron HT is a super high-performance, extreme-duty lithium complex grease engineered for high-temperature service — purpose-built for wheel bearings, including disc brake applications, and for heavily loaded fifth wheels. Its very high dropping point and thermally stable lithium complex thickener keep the lubricating film intact at the sustained temperatures generated by disc brakes and long-haul hub service, where conventional greases soften, bleed, and run out. An extraordinarily tacky, high-adhesion formulation delivers extreme-pressure film strength and strong anti-wear protection on fifth-wheel plates and other high-load sliding surfaces, while excellent mechanical stability and best-in-class water washout resistance hold performance in wet and contaminated service. The result is longer component life, less frequent regreasing, and lower total cost of ownership across trucking, construction, mining, agriculture, and forestry fleets.

PERFORMANCE HIGHLIGHTS

- **Built for wheel bearings** — a very high dropping point resists softening and run-out at disc-brake and hub temperatures, protecting bearings in severe service
- **Exceptional fifth wheel performance** — heavy tackifier chemistry clings to the fifth-wheel plate under continuous sliding, twisting, and shock loading, resisting squeeze-out and dry spots to keep coupling smooth and reduce plate wear
- **Extreme-pressure protection** — 4-ball weld point over 600 kgf for reliable protection under severe loading
- **Extremely tacky, stays in place** — exceptional adhesion to metal and other surfaces resists sling-off and pound-out
- **Unmatched water washout resistance** — excellent protection in wet, washdown, and contaminated environments
- **Shock-load protection** — excellent defense against failures caused by shock loading
- **Rust & corrosion protection** — shields critical metal surfaces of moving parts from rust and corrosion
- **Reduced maintenance expense** — “stay-in-place” performance means less frequent regreasing and extended equipment life

APPLICATIONS

- Wheel bearings, including disc brake applications
- Fifth wheels, U-joints, and steering linkage
- Chassis lubrication
- Off-road chassis — agriculture, construction, logging, trucking & mining
- Rock crushers, sand and gravel screens
- Oil field and offshore drilling equipment
- Marine deck equipment
- Industrial plain and anti-friction bearings under shock load or wet, dirty conditions

TYPICAL PROPERTIES

Property	TRIAx Spheron HT	Test Method
NLGI Grade	2	ASTM D217
Thickener Type	Lithium Complex	—
Appearance	Tacky, smooth & homogeneous	Visual
Color	Red	Visual
Base Oil Viscosity @ 40 °C, mm ² /s	320	EN ISO 3104
Base Oil Viscosity @ 100 °C, mm ² /s	30	EN ISO 3104
Operating Temperature Range	-30 °C to 232 °C	—
Cone Penetration, Worked, 0.1 mm	265–295	ISO 2137
Dropping Point (US / Canada), min.	550 °F (288 °C)	ISO 6299
Dropping Point (Europe / Asia), min.	600 °F (316 °C)	ISO 6299
Copper Corrosion, 24 h @ 100 °C	1b	ASTM D4048
Rust Test	Pass	ASTM D1743
Water Washout @ 79 °C, wt.% loss	< 2%	ISO 11009
Timken OK Load, lb	80	ASTM D2509
4-Ball EP Weld Point, kgf	600+	ASTM D2596
4-Ball Wear Scar, mm	0.45	ASTM D2266

Small deviations from these results are expected during the manufacturing process and do not affect product performance, and product formulations are subject to change without notice.