

# TRIAX ATLAS 600 SYNTHETIC GREASE

**SYNTHETIC • LONG LIFE • EXTREME DUTY • HIGH TEMPERATURE • TACKY • WATER RESISTANT**

TRIAX ATLAS 600 Synthetic Grease is a one of a kind ultra high performance synthetic grease designed for virtually all multi-purpose and heavy duty applications in both regular and severe service. This product is built from the ground up with high viscosity base oils and top tier additive content for exceptional all around performance and stability. It contains a full range of corrosion inhibitors, EP additives, adhesion improvers and oxidation inhibitors. It is designed to stay in place, prevent metal to metal contact in virtually all applications. High mechanical stability and load carrying capacity allows its use in severe service heavy duty applications such as mining, agriculture and construction. High temperature rating ensures performance in high temperature disc brake wheel bearings and high ambient temperatures.

## APPLICATIONS

- A wide range of automotive and industrial wheel bearings
- Wheel bearings of many kinds, including disc brakes
- U Joints, • 5th Wheels semi truck couplings • Roller bearings • Pinions, suspension and ball joints
- Extreme pressure locations and continuously heavily loaded components
- **MARINE:** Wide range of marine applications where frequent contact with salt or fresh water is expected

## PERFORMANCE HIGHLIGHTS

- Extraordinary mechanical stability under high loads and torque,
- Exceptional adhesion in all kinds of applications, stays in place
- Extremely wide operational temperature range -40 F to 400 F in continuous operation
- Excellent corrosion protection against water, even against salt water
- Outstanding EP ( Extreme Pressure ) performance
- Over 626 F high temperature dropping point
- Virtually waterproof less than 2% washout in direct contact with water
- Nearly zero separation
- Excellent oxidation stability and long term durability
- Lasts 2 to 3 times longer lithium complex greases
- Classified as GC-LB - chassis and wheel bearing applications

## CHEMICAL PROPERTIES

Grease Classifications		
NLGI-2- GC-LB		
Test Parameter	Test Method	Value
Appearance	Visual	Adhesive, Smooth and Homogenous
Color	Visual	Blue
Thickener		Calcium Sulfonate Complex
Base Oil Type		Synthetic
Base Oil Viscosity at 40°C, mm <sup>2</sup> /s	EN ISO 3104	180
Base Oil Viscosity at 100°C, mm <sup>2</sup> /s	EN ISO 3104	19.6
Viscosity Index	ASTM D2270	125
NLGI Grade	ASTM D217	2
Operating Temperature Range		-30°C to 200°C
Cone Penetration, Worked, 0.1 mm	ISO 2137	265 – 295
Cone Penetration, Unworked, 0.1 mm	ISO 2137	265
Penetration after 10,000 strokes, 0.1 mm	ISO 2137	±15
Roll Stability, Penetration Change, 0.1 mm	ASTM1831	±5
Dropping Point, °C	ISO 6299	>330 C (626F)
Corrosion Preventive Properties	ASTM D1743	Pass
Salt Water Corrosion Test	ASTM D5969	Pass
Water Washout Test at 79°C, wt.% loss	ISO 11009	< 2%
Oxidation Stability, Pressure Drop, psi	ASTM D942	3
Timken O.K. Load, lbs	ASTM D2509	80+
Four-Ball EP Test, Weld Point, kgf	ASTM D2596	600+
Four-Ball EP Test, LWI, kgf, min	ASTM D2596	40

## CALCIUM SULFONATE vs LITHIUM COMPLEX

TRIAX high performance greases have made a total conversion to Calcium Sulfonate Complex (CSX), starting Nov 2022.

### What does Calcium Sulfonate Complex offer that Lithium Complex does not?

- Better thermal stability
- Improved EP load bearing capacity (30-50% higher)
- Extreme protection against water
- Much higher dropping point
- Improved mechanical stability