



## Multipurpose & Wheel Bearing EP 2 Grease

### PRODUCT DESCRIPTION:

**Mini T's Multipurpose & Wheel Bearing EP2 Grease** is a technologically patented and advanced grease that has been developed by complexing modified overbased calcium sulphonates. This technology combines three areas of superior high technology chemistries namely: the use of ultra high purity hydro-treated and severely hydrocracked base oils, a proven antioxidant chemistry that out performs other greases, the latest in calcium sulphonate complex grease thickeners. These advanced chemistries are characterized by exceptional mechanical stability, high dropping point, high load carrying performance, reduced wear and excellent resistance to water and corrosion. The design of this formulation outperforms other premium greases such as Lithium Complex, Aluminum Complex and Polyurea type greases.

### KEY FEATURES:

- Thermal and Mechanical Stability
- Load Carrying & Wear Protection
- Corrosion Resistance
- Resistance to Oxidation
- Exceeds the requirements of NLGI GC/LB certification
- Resistance to Water, maintains consistency after absorbing water
- Low temperature hand-gun dispensing capability
- Environmentally friendly due to no heavy metals or other aggressive additives harmful to the environment

### CUSTOMER BENEFITS:

- **Mini T's Multipurpose & Wheel Bearing EP 2 Grease** can lower maintenance costs as a result of reduced product breakdown under low to moderately high shear conditions
- Superior mechanical stability versus other thickeners, particularly in the presence of heat and water
- Reduces bearing wear, extends equipment life and protects bearings under heavy loads
- Stays in place in wet and marine applications
- High dropping point, typically in excess of 300 °C (575 °F)
- Performs well in low ambient temperature applications
- Excellent EP and AW properties inherent in the thickener enhancing high temperature and pressure capability

- Sulfonates are known and used for their excellent rust prevention properties and this property is inherent in the thickener
- The use of premium antioxidants ensures excellent thermal and oxidation stability
- Excellent resistance to water washout and will easily outperform all other technologies

**APPLICATIONS:**

**Mini T's Multipurpose & Wheel Bearing EP 2 Grease** exceeds the requirements for NLGI GC/LB certification and is therefore suitable for use in automotive and truck wheel bearings and chassis components. It is also an excellent multipurpose industrial bearing grease and has found use in all manner of moderate to heavy duty industrial applications. It is also used in many Marine applications.

This grease has a temperature range of -40 °C (-40 °F) to 385 °C (725 °F), <1% water washout and ASTM testing results are significantly greater than most products on the market. This grease is the best choice for operational use in the following applications

Automotive (NLGI Approved)  
Construction Equipment  
Agricultural Equipment  
Conveyors

Heavy Industrial Transportation  
Industrial and Crusher Bearings  
Ski and Golf Equipment  
Marine equipment

**PACKAGING:**

Drums 400 lb / 180kg, pails 35lb / 17kg, kegs 120lb / 55 kg and 400 gram tubes

**Typical Properties:**

Product Number	Mini T's Multipurpose & Wheel Bearing EP 2 Grease	Test Method
NLGI Grade	2	ASTM D217
Color	Brown	Visual
Texture	Smooth	Visual
Type of Thickener	Calcium Sulphonate Complex	ASTM D128
Dropping Point, °C/F°	318 / 605	ASTM D 2265
Consistency, 60 Strokes	280	ASTM D217
Base Oil Viscosity, cSt @ 40 °C	135	ASTM D445
Mechanical Stability Worked 100,000 strokes, % change °C	2.4	ASTM D217
Worked 10,000 strokes with 50/50 water %	8.0	ASTM D217
Timken OK Load kg/lb	27.2 / 59.8	ASTM D 2509
Four Ball EP LWI. kgf	62	ASTM D 2596
Four Ball EP Weld Point kg	500	ASTM D 2596
Four Ball Wear Scar Diameter, mm	0.42	ASTM D 2266
Fretting Wear, mg	5.7	ASTM D 4170

<b>Rust Prevention</b>	<b>Pass</b>	<b>ASTM D 1743</b>
<b>Salt Fog Corrosion, 1mil d.f.t., hours</b>	<b>&gt;1000</b>	<b>ASTM B117</b>
<b>Wheel Bearing Life, hours</b>	<b>100</b>	<b>ASTM D3527</b>
<b>Wheel Bearing Leakage, g</b>	<b>4.0</b>	<b>ASTM D 4290</b>
<b>Bomb Oxidation, psi Drop, after 1000 Hrs</b>	<b>9.0</b>	<b>ASTM D942</b>
<b>Oil Separation. % loss</b>	<b>0.2</b>	<b>ASTM D1742</b>
<b>Low Temperature Torque, @ -40 °C, Nm</b>	<b>12.0</b>	<b>ASTM D4693</b>
<b>Elastomer Compatibility</b> AMS 3217/ 3B CR Type 70 hrs @ 100 °C Percent Swell Hardness Change Durometer A points AMS 3217/ 2B NBR-L Type 70 hrs @ 150 °C Percent Swell Hardness Change Durometer A points	<b>+15.70</b> <b>-6</b> <b>+8.9</b> <b>-4</b>	<b>ASTM D4289</b>
<b>Water Resistance @ 80°C/175 °F, % removed</b>	<b>0.5</b>	<b>ASTM D 1264</b>

*Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice.*

**Health and Safety:**

*When used for its intended application, this product is not expected to have any adverse health implications. For complete information on safe handling, as well as physical and chemical characteristics please refer to the Material Safety Data Sheet (MSDS). Do not use this product for purposes other than its intended use. Please be responsible to the environment when disposing of used product.*

**Mini T's Fastest Grease in the East**

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