



# G-2173-1.5

## calcium sulfonate complex grease

Issued: 08/2010  
Revised:  
Revision:

### DESCRIPTION

**G-2173-1.5** is a member of a family of technologically advanced greases which have been developed by complexing modified overbased calcium sulfonates. This technology, developed and patented by Chemtura, is characterized by exceptional mechanical stability, high dropping point, high load carrying performance, reduced wear, and excellent resistance to water and corrosion. This technology equals and in many ways outperforms other premium, high temperature greases such as Lithium Complex, Aluminum Complex and Polyurea.

### FEATURES AND BENEFITS

#### Thermal and Mechanical Stability

- Superior mechanical stability versus other thickeners, particularly in the presence of heat and water
- High dropping point, typically in excess of 300°C

#### Load Carrying & Wear Protection

- Excellent EP and AW properties inherent in the thickener
- Does not require the use of additional additives

#### Resistance to Water

- Excellent resistance to water washout

#### Corrosion Resistance

- Sulfonates are known and used for their excellent rust prevention properties
- This property is inherent in the thickener
- Will easily outperform all other technologies

#### Resistance to Oxidation

- The use of premium antioxidants ensures excellent thermal and oxidation stability

**APPLICATION AREAS** G-2173-1.5 is an excellent multipurpose industrial bearing grease and can be used in all manner of moderate to heavy duty industrial applications. It will also exceed the requirements for NLGI GC/LB certification and is therefore suitable for use in automotive and truck wheel bearings and chassis components.

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### TYPICAL DATA

<u>Properties</u>	<u>Test Method</u>	<u>G-2173-1.5</u>
NLGI Grade	ASTM D217	1.5
Color	Visual	Tan
Texture	Visual	Smooth
Dropping Point, °C	ASTM D2265	318
Consistency, 60 strokes	ATSM D217	300
Mechanical Stability	ASTM D217	
Worked 100,000 strokes, % change		2.4
Worked 10,000 strokes, with 50/50 water, %		8.0
Timken OK Load, kg	ASTM D2509	27.2
4-Ball EP:    LWI, kgf	ASTM D2596	62
Weld Point, kg		500
4-Ball Wear, mm	ASTM D2266	0.42
Rust Test, rating	ASTM D1743	Pass
Salt Fog Corrosion, 1 mil d.f.t., hours	ASTM B117	>300
Wheel Bearing Leakage, grams	ASTM D4290	3.0
Bearing Life Performance, hours	ASTM D3527	100
Bomb Oxidation, psi drop after 1000 hours	ASTM D942	9.0
Water Resistance at 80°C, % removed	ASTM D1264	1.0
Oil Separation, % loss	ASTM D1742	0.2
Low Temperature Torque at -40°C, Nm	ASTM D4693	12.0

The values quoted above are typical of normal production. They do not constitute a specification.

**May be available in other NLGI Grades, to a minimum cone penetration of 260 mm/10 (Grade 2.5).** Performance data may vary between grades.

### HANDLING INFORMATION

G-2173-1.5 may be handled using conventional grease handling and dispensing methods.

### SAFETY INFORMATION

For more extensive information on the safe handling and use of this product, see the Material Safety Data Sheet.

### SHIPPING INFORMATION

Petroleum Lubricating Grease  
Available in a wide range of containers.