

# G-2181-1

## Calcium Sulfonate Complex Grease

**G-2181-1 Grease** is a member of a family of technologically advanced greases that 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

- Enhanced EP and AW properties
- Does not require the use of additional additives

#### Resistance to Water

- Excellent resistance to water washout and spray-off

#### 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 a premium antioxidant and a high quality oil ensures excellent thermal and oxidation stability

### APPLICATION AREAS

**G-2181-1 Grease** is a heavy-duty multipurpose industrial bearing grease. It is formulated with a high viscosity base oil package. It is specifically designed to perform well under the harshest conditions found in marine environments, steel mills, pulp and paper mills and other similar industries. It is ideally suited to applications where heat, water and extreme loads are encountered.



## TYPICAL DATA

PROPERTIES	TEST METHOD	G-2181-1
NLGI Grade	ASTM D217	1
Colour	Visual	Brown
Texture	Visual	Smooth
Dropping Point, °F	ASTM D2265	605
Consistency, 60 strokes	ASTM D217	325
Base Oil Viscosity, cSt @ 40°C	ASTM D445	421
Mechanical Stability Worked 100,000 strokes, % change	ASTM D217	2.5
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	55
Weld Point, kg		400
4-Ball Wear, mm	ASTM D2266	0.45
Rust Test, rating	ASTM D1743	Pass
Salt Fog Corrosion, 1 mil d.f.t., hours	ASTM B117	>1000
Copper Corrosion, rating	ASTM D4048	1B
Wheel Bearing Leakage, grams	ASTM D4290	5.0
Bearing Life Performance, hours	ASTM D3527	100
Bomb Oxidation, psi drop after 1000 hours	ASTM D942	7.0
Water Washout at 80°C, % lost	ASTM D1742	0.2
Resistance to Water Spray, % retained	ASTM D4049	70
Oil Separation, % loss	ASTM D1742	0.2

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-2181-1 Grease** 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.



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