AFG-2

ANTI-FRICTION GREASE – NLGI GC / LB

The **AFG-2** grease is a sulfonate-based ALL PURPOSE ANTI-FRICTION GREASE developed from the latest technology. The combination of the sulfonate's natural lubricating properties with the ANTI-FRICTION TREATMENT provides far superior performance when compared to other types of greases such as lithium complex, aluminium complex and polyureas as well as other sulfonate based greases.

The **AFG-2** grease meets and exceeds the NLGI* **GC / LB** standard for the lubrication of automotive wheel bearings and chassis.

The **AFG-2** grease stands out with the following properties :

- Outstanding extreme-pressure (E.P.) and anti-wear performance
- Optimum protection of surfaces subjected to sliding and rubbing, vibration or oscillation such as bucket pins, pivot pins and other chassis parts
- Superior mechanical stability
- Excellent thermal stability
- Excellent water resistance
- Superior resistance to heavy loads and impacts
- Very good adhesion
- Superior rust and corrosion resistance
- Excellent oxidation resistance
- Ideal for bearings and pin bushings
- Ideal for automatic greasing systems operating down to 0 °C
- Wide operating temperature range : from -32 °C to 205 °C (-26 °F to 400 °F)

The **AFG-2** grease is designed to be used in different types of applications: industrial, automotive, heavy machinery, recreational vehicles and others.

The **AFG-2** grease can be safely used for the lubrication of electric motor bearings as opposed to conventional EP greases. Therefore the use of AFG-2 eliminates the need for a grease specifically designed for electric motors thus decreasing inventory and risk of errors.

The **AFG-2** grease advanced technology allows for :

- Minimum friction and wear
- Lower relubrication frequency
- Lower overall grease consumption

ENVIRONMENTAL INFORMATION :
The **AFG-2** sulfonate based grease contains no heavy metals and no harmful nor environmentally undesirable additives.

* NLGI : National Lubricating Grease Institute

2200, Léon-Harmel, suite 6, Québec (Québec) Canada G1N 4L2
Phone : **(418) 687-5533** Fax : (418) 687-5534
E-mail : hipertech@hipertech.com

TECHNICAL DATA

GENERAL PHYSICAL PROPERTIES :

▪ N.L.G.I. grade :	2
▪ Colour :	green
▪ Thickener :	sulfonate
▪ Dropping point, ASTM D2265, °C (°F) :	>300 (>572)
▪ Base oil ;	
- Type :	mineral
- Viscosity @ 40°C, cSt :	114
- Viscosity @ 100°C, cSt :	12,0
- Viscosity index :	94

MECHANICAL STABILITY :

▪ Consistency, ASTM D217, worked penetration ;	
- 60 strokes, mm/10 :	279
- 100,000 strokes, mm/10 :	287
- 10,000 strokes, mm/10 :	296
▪ Shell roll stability test ;	
- ASTM D1831, % change :	293 (+5)

OXIDATION RESISTANCE :

▪ Oxidation stability, ASTM D942 ;	
- Pressure drop, psi / 100 hours :	1
- Pressure drop, psi / 500 hours :	2
- Pressure drop, psi / 1000 hours :	9
▪ Wheel bearing test,, ASTM D3527, hours :	140

RUST AND CORROSION RESISTANCE :

▪ Rust test rating, ASTM D1743 :	pass
▪ Salt fog test, ASTM B117, film: 1mil, hours :	> 300

SEPARATION CHARACTERISTICS :

▪ Oil separation @ 25°C (77°F), ASTM D1742, % weight :	1,5
▪ Wheel bearing leakage test, ASTM D4290, gr. :	4,9

WATER RESISTANCE :

▪ Water washout, ASTM D1264 ;	
- % loss @ 79°C (174°F) :	2,0

LOW TEMPERATURE PROPERTIES :

▪ Low temperature torque, ASTM D4693 @ –40°C, N.m. :	8,6

EXTREME-PRESSURE AND ANTI-WEAR PROPERTIES :

▪ Timken OK load, ASTM D2509, kg (lbs) :	32 (70)
▪ 4 ball wear test, ASTM D2266 ;	
- Scar (mm), 40 kg, 1200 RPM @ 75°C, 1 hour :	0.30
▪ 4 ball EP test, ASTM D2596 ;	
- Load / wear :	100
- Weld point, kg :	620

OPERATING TEMPERATURE RANGE :

▪ Minimum, °C (°F) :	-32 (-26)
▪ Maximum, °C (°F) :	180-205 (350-400)
▪ Dispensing temperature – grease gun °C (°F) :	-20 (-4)
▪ Dispensing temperature – automatic greasing system, °C (°F) :	0 (32)

Sizes	Product numbers
450 g	142450
2 kg	142002
17 kg	142017
55 kg	142055
180 kg	142180

The data provided in this document is for information purposes only. ***HIPERTECH INC.***, having no control over the application and the use of this product, limits its responsibility to the quality of the product supplied.

2200, Léon-Harmel, suite 6, Québec (Québec) Canada G1N 4L2
Phone : **(418) 687-5533** Fax : (418) 687-5534
E-mail : hipertech@hipertech.com