



# TEXACO POLYSTAR<sup>®</sup> RB 2

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## CUSTOMER BENEFITS

Texaco Polystar RB 2 delivers value through:

- **Wide application range** — Suitable for high rpm operation, operating temperatures ranging from -29°C to 177°C (-20°F to 350°F).
- **Excellent oxidation stability** — Provides exceptional bearing life at operating temperatures in the range of 93°C to 177°C (199°F to 350°F).
- **Excellent rust protection** — Provides exceptional rust protection as defined by Bearing Rust, ASTM D5969 using 10% Synthetic Sea Water and also does extremely well on the Dynamic Bearing Rust (EMCOR) Test, ASTM D6138 using 10% Synthetic Sea Water.

## FEATURES

Texaco Polystar RB 2 is a high temperature ball and roller bearing grease.

It is formulated with high quality base stocks, a modern ashless, organic polyurea thickener coupled with high performance rust and oxidation inhibitors (the latter to provide superior rust protection in severe applications that many electric motors applications are exposed to in field operations). Its texture is smooth and buttery and its color is dark green.

As noted, Texaco Polystar RB 2 passes the Bearing Rust Test, ASTM D5969 with 10% synthetic sea water. It also is rated at a 1a on the ASTM D4048 Copper Corrosion Test. These properties help to provide longer bearing life under high speed and high temperature operation than most other widely used antifriction bearing greases. High Temperature Bearing Life, ASTM D3336, testing shows that the life of a 204 K bearing lubricated with Texaco Polystar RB 2 and operating at 150°C (302°F) and 10,000 rpm is about 3,000 hours. This is nearly 10 times the life possible when using conventional lithium greases. Under normal operating temperatures and conditions, Texaco Polystar RB 2 can be used as a "Life Pack" lubricant in sealed bearings.

## APPLICATIONS

Texaco Polystar RB 2 is recommended:

- for use in a wide range of automotive and industrial applications
- for use in antifriction bearings operating at high speeds (10,000 rpm and greater)
- where the operating temperatures are on the order of 150°C (302°F) and higher
- where there is a likelihood that water or salt water will get into the bearings

It performs satisfactorily in bearings at temperatures as low as -29°C (-20°F).

Applications where Texaco Polystar RB 2 will outperform most other greases include:

- As a "Life Pack" lubricant by manufacturers of automotive generators, alternators, and starters to protect against the effects of moisture and road-splash (factory-filled for life ball bearings)
- Bearings on air-conditioning units in homes and other buildings
- Unsealed electric motor bearings operating under moist conditions
- Applications where silent operations are beneficial

Texaco Polystar RB 2 is registered with NSF and is acceptable as a lubricant where there is no possibility of food contact (H2) in and around food processing areas. The NSF Nonfood Compounds Registration Program is a continuation of the USDA product approval and listing program, which is based on meeting regulatory requirements of appropriate use, ingredient review and labeling verification.

**TYPICAL TEST DATA**

<b>NLGI Grade</b>	<b>2</b>
<i>Product Number</i>	221915
<i>MSDS Number</i>	8998
Operating Temperature, °C(°F) Minimum <sup>1</sup> Maximum <sup>2</sup>	-29(-20) 177(350)
Penetration, at 25°C(77°F) Unworked Worked	240 280
Penetration Change after 100,000 strokes, ASTM D217, mm/10	50
Dropping Point, °C(°F)	280(536)
High Temperature Life, hours at 177°C(350°F), ASTM D 3336	500+
Lincoln Ventmeter, psig at 30 s, at 75°F 30°F 0°F -22°F	325 390 750 ◆
Thickener, % Type	12.5 Polyurea
ISO Viscosity Grade, Base Oil Equivalent	100
Viscosity, Kinematic* cSt at 40°C cSt at 100°C	111.4 12
Viscosity, Saybolt* SUS at 100°F SUS at 210°F	516 66
Water Washout, (79°C), ASTM D1264	<3%
Oil Separation Test, ASTM D1742, %	1.4
Fretting Wear, mgs, ASTM D4170	7.5
4-Ball Wear Scar, ASTM D2266 @ 40kg, 1200 rpm, 75C, 1hr, mm	0.4
Bearing Rust, 10% Synthetic Sea Water, ASTM D5969	Pass
Dynamic Bearing Rust (EMCOR) Test, 10% Synthetic Sea Water, ASTM D6138	0,0
Copper Corrosion Resistance, ASTM D4048	1a
Low Temperature Torque, Ball Bearing, ASTM D1478, (-29°C) g-cm	Start 4719 Run 618
Low Temperature Torque, Ball Bearing, ASTM D 1478, (-18°C) g-cm	Start 1970 Run 195
Viscosity Index*	98
Flash Point, °C(°F)*	260(500)
Pour Point, °C(°F)*	-18(0)
Texture	Smooth, Buttery
Color	Dark Green

Typical test data are average values only. Minor variations which do not affect product performance are to be expected in normal manufacturing.

- <sup>1</sup> Minimum operating temperature is the lowest temperature at which a grease, already in place, could be expected to provide lubrication. Most greases cannot be pumped at these minimum temperatures.
- <sup>2</sup> Maximum operating temperature is the highest temperature at which the grease could be used with frequent (daily) relubrication.
- ◆ Not tested at this temperature
- \* Determined on mineral oil extracted by vacuum filtration.