

# JAX POLY-PLATE EP SERIES

**SHEAR-STABLE, LONG-LIFE POLYUREA GREASES**



## PRODUCT DESCRIPTION

JAX Poly-Plate EP greases utilize a next-generation polyurea-based thickener technology which is designed specifically to enhance the performance and reliability of electric motor bearings and ball or lightly-loaded roller bearings operating at high temperatures. JAX Poly-Plate EP greases feature excellent mechanical stability, rust inhibition and deposit control, and deliver exceptional protection under the most demanding conditions of high temperatures and speeds.

## PRODUCT BENEFITS

- **Superior Mechanical Shear Stability**—JAX Poly-Plate EP greases' custom polyurea thickener system provides excellent durability and stability when subjected to a mechanical shearing force. Competitive polyurea-based greases can soften by as much as three NLGI grades when tested under the same conditions. Good mechanical shear stability is important in both electric motor lubrication and roller bearing applications where excessive grease softening may lead to grease leakage or purging from the bearing.
- **Outstanding Extreme-Pressure and Antiwear Protection**—JAX Poly-Plate EP greases utilize a proprietary extreme-pressure additive package that provides excellent load-carrying capabilities without degrading the thermal stability of the grease at high temperatures. Conventional sulfur- and phosphorus-based extreme-pressure additives used in other greases begin to oxidize rapidly at temperatures above 250°F (121°C). JAX Poly-Plate EP greases raise the performance bar, continuing to provide high levels of wear and extreme-pressure protection up to 350°F (177°C) without rapid oxidation by the antiwear or extreme-pressure additive components.
- **Excellent Water Resistance**—JAX Poly-Plate EP greases are formulated with enhanced water-resistant polymers that provide a tenacious film in applications that are heavily contaminated with water, maintaining the protection needed to increase component life.

## APPLICATIONS

Although JAX Poly-Plate EP greases provide exceptional performance in a wide range of industrial and transportation applications, the unique polyurea formulation is highly recommended for sealed-for-life and electric motor bearings applications. Their advanced thickener formulation and proprietary manufacturing techniques provide low noise characteristics, improved bearing protection and performance, and longer motor life.

## COMPATIBILITY

JAX Poly-Plate EP greases are not compatible with non-polyurea thickeners. For optimum performance, it is recommended that the system be thoroughly purged and, if warranted, cleaned prior to installation. Please contact your JAX Sales Representative with questions regarding specific applications.



# JAX POLY-PLATE EP



## PERFORMANCE FEATURES AND BENEFITS

- Outstanding Extreme-Pressure and Antiwear Protection
- Superior Mechanical Shear Stability
- Excellent Water Resistance

TYPICAL PROPERTIES	POLY-PLATE EP-0 (09500)	POLY-PLATE EP-2 (09502)	METHOD
Soap Type	Polyurea	Polyurea	
Penetration, Worked 60 Strokes	355-385	265-295	ASTM D 217
NLGI Grade	0	2	
Dropping Point, °F (°C), min	460 (238)	500 (260)	ASTM D 2265
Color	Dark Green	Blue	
Texture	Smooth	Smooth	
Water Washout @ 170°F, %	10.0 max.	10.0 max	ASTM D 1264
Oil Separation, % loss	5.0 max	5.0 max	ASTM D 1742
Bearing Corrosion Test	Pass	Pass	ASTM D 1743
4-Ball EP Weld Test			ASTM D 2596
Load-Wear Index, kgf	45	50	
Weld Point, kgf	250 min.	400 min.	
Timken OK Load, lbs.	40	60	ASTM D 2509
Base Fluid:			
Viscosity @ 40°C, cSt	135-155	135-155	ASTM D 445
Viscosity @ 100°C, cSt	13.5-15.5	13.5-15.5	ASTM D 445
Viscosity Index	90	90	ASTM D 2270
Oxidation Stability, 100 hours @ 210°F	10 psi max	10 psi max	ASTM D 942

JAX products undergo continual improvement in formulation and manufacture. The values indicated in this PDS are typical production values at the time of this writing. JAX reserves the right to alter and update product data and typical values at any time without notice. It is the responsibility of the installer and/or purchaser to determine if these specifications are adequate and proper for the intended application. MSDS information may be found at [www.jax.com](http://www.jax.com) or by contacting JAX INC.

CONTAINER SIZE	POLY-PLATE EP-0	POLY-PLATE EP-2
2000 Pound Tote - 276	09500-276	09502-276
400 Pound Drum - 400	09500-400	09502-400
120 Pound Keg - 120	09500-120	09502-120
35 Pound Pail - 035	09500-035	09502-035
50 Cartridge Case - 050	09500-050	09502-050
10 Cartridge Pack - 052	09500-052	09502-052



**JAX INC.**

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**GREASES**