



Product Data Sheet



Monarch Synplex EP Grease

Full Synthetic Long Life & Arctic Applications Grease

Monarch Synplex EP #2 Grease is multi-service fully synthetic oil based grease. This grease provides the extended long service life at continuously high operating temperatures and extreme pressure operations. It is based on lithium complex soap base thickener formulated with (PAO) poly alpha olefin base oil providing extended life in arctic or sub-zero temperatures with working temperature range – 40 °F to 350 °F.

This grease possesses extreme pressure/anti-wear, anti-corrosion & anti-oxidant characteristics to enhance its performance at higher speeds, heavy loads and at high temperatures.

Monarch Synplex EP #2 Grease has a dropping point of over +500 F, allowing it to perform in even the highest temperature environments.

Product Features:

- Synthetic PAO base oil
- Superior oxidation resistance and rust protection
- Outstanding extreme pressure protection
- Excellent Water Resistance

Customer Benefits:

- Suitable for high speed bearing running under different operating conditions. Works satisfactorily under extremely low temperatures The specialized additives present in the grease protect equipment from chemical oxidation, rust and corrosion resistance, thus providing long service life
- Extends equipment life under continuous high operating temperatures and corrosive environments
- Provides effective wear protection for ball joints, drive shafts and other parts subjected to high pressure and shock loading
- It works effectively for extended periods of time under water ingress and in dusty/harsh environments

| Specifications and Approvals | Monarch Synplex EP grease |
|------------------------------|---------------------------|
| NLGI Rating GC-LB | ✓ |





Applications:

- Recommended for; high speed bearings at normal temperatures and medium speed bearings in colder climates. Effective in applications such as kiln car, wheel bearings, roller bearings, oven door hinges, pellet mill bearings, slag bed shaker bearings, hot conveyor bearings and steam control valves and many other industrial, construction, mining, and automotive. **This product works extremely well in arctic or sub-zero temperatures!!**

Typical Properties

Monarch Synplex EP Grease

| Product Number | 911 BA | Test Method |
|-------------------------------------|-----------------|-------------|
| Color | Blue | Visual |
| Texture | Smooth , Tacky | Visual |
| NLGI Grade | 2 | ASTM D 217 |
| Worked Penetration | 285 | ASTM D-217 |
| Change in Pen after 100,000 strokes | 30 max | - |
| Drop Point, °F | 500 Min. | ASTM D 2265 |
| Operating Temperature | - 40 F to 350 F | - |
| Viscosity @ 40 °C, cSt | 31 | |
| Viscosity @ 100 °C, cSt | 6.0 | |
| Viscosity @ 100 °F, SUS | 158 | ASTM D 445 |
| Viscosity @ 210 °F, SUS | 46 | |
| Type of thickener | Lithium complex | - |
| 4-Ball EP load, kg / LWI | 315/50 | ASTM D 2596 |
| Timken OK load , lbs. | 40 | ASTM D 2509 |
| Soap % | 8 | - |

These properties are typical of the current production. Variations that do not affect product performance are to be expected depending on blending and manufacturing locations. The information above is subject to change without notice.

Health and Safety:

This product is unlikely to have any adverse health implications or safety hazards when used for its intended application. Avoid contact with skin, use resistant gloves when handling used oil. If skin comes in contact wash immediately with soap and water. For complete information on safe handling and product characteristics please refer to the Safety Data Sheet (SDS) found on our website. www.royalmfg.com or call (918)-584-2671. **Packaging options:**



15 oz. Tubes



120 Lb. Kegs



400 Lb. Drums



2,000 Lb.



50,000 Tanker

