



Product Data Sheet



Royal 876 LITHIUM COMPLEX #2

HD Construction & Mining Grease

Royal 876 HD EP Grease is a heavy-duty lithium complex grease designed for high load capabilities. It is formulated with high-viscosity base oils and a synergistic combination of high quality EP and Heavy-Duty additives. This grease also contains a tackiness additive to enhance retention on lubricant parts. In addition, it offers excellent structural and oxidation stability and high resistance to water washout.

Royal 876 HD EP Grease is designed for heavy-duty applications found in the construction and mining industry. It can also be used in automotive, trucking and farming setting. This grease can provide excellent protection of on and off-highway parts like ball joints and drive shafts.

Product Features:

- High-viscosity base oil
- Superior oxidation resistance and rust protection
- Outstanding extreme pressure protection
- Excellent water resistance
- Good mechanical and shear stability

Specifications and Approvals	Royal 876 EP
NLGI Rating: GC-LB	✓

Customer Benefits:

- Suitable for use with large bearings running under severe operating conditions and medium to low speed bearings
- Minimizes chemical deterioration over an extended period of storage and provides enhanced service life to equipment
- Provides effective wear protection for ball joints, drive shafts and other parts subjected to extreme pressure and shock loading
- Works effectively in water ingress conditions as well as in dusty/harsh environments

Applications:

- **Royal 876 EP Grease** can be used wherever lithium greases are recommended or preferred, such as in suspension systems, wheel bearings, universal joints, ball joints and anti-friction plain bearings. Also it is well suited for lubrication in the pulp and paper mill industry, such as paper machine wet ends, felt roller bearings, couplings and press sections.





Typical Properties

Royal 876 HD EP Grease

Product Number	920RB	920RA	Test Method
Color	Red	Red	Visual
Texture	Smooth, Tacky	Smooth, Tacky	Visual
NLGI Grade	1	2	ASTM D 217
Worked Penetration	310-340	265-295	
Change in Pen after 100,000 strokes	+ 20	+ 20	ASTM D-217
Drop Point ,° F	480 Min.	500 Min.	ASTM D 2265
Viscosity @ 40 C ,cSt	451	451	
Viscosity @ 100 C ,cSt	28.4	28.4	
Viscosity @ 100 F ,SUS	2429	2429	ASTM D 445
Viscosity @ 210 F ,SUS	140	140	
Type of thickener	Lithium complex	Lithium complex	-
4-Ball EP load, kg	500	500	ASTM D 2596
4-Ball Wear @ 40 kgf, wear scar dia, mm	0.50 mm	0.50 mm	ASTM D 2266
Timken OK load , lbs	80	80	ASTM D 2509
Water washout @ 175 °F, % wt.	5.0	2.0	ASTM D 1264
Water Spray off, % wt.	30 max.	10 max.	ASTM D 4049
Wheel Bearing Leakage , gm	6.0	3.0	ASTM D 1263
Rust Test	Pass	Pass	ASTM D-1743

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. 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



35 Lb. Pails



120 Lb. Kegs



400 Lb. Drums



2,000 Lb.
Disposable Totes



50,000 Lb. Bulk