



Royal 876 Lithium Complex

Lithium Complex 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
- Good mechanical and shear stability
- Approved by Komatsu as a CLS grease

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 suspension systems, wheel bearings, universal joints, ball joints and anti-friction bearings. It is also 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 Lithium Complex Grease

Product Number	9200RB	9200RA	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	ASTM D 217
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	ASTM D 445
Viscosity @ 100 °C, cSt	28.4	28.4	ASTM D 445
Viscosity @ 100° F	2429	2429	ASTM D 445
Viscosity @210°F, SUS	140	140	ASTM D 445
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 126
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