



Royal 865 HD Grease

Heavy Duty and Severe Purpose Grease

Royal Ultra 865 HD Grease is an Environmental-friendly and responsible superior performance, heavy duty grease exhibiting outstanding film strength and outstanding resistance to corrosive saltwater environments. It does not contain any heavy metals or environmentally damaging additives; thereby, significantly reducing the risk of environmental contamination, making it an optimal choice for marine applications among many other very severe applications in mining, oil fields, loggings, construction, etc.

Royal Ultra 865 HD Grease has been carefully engineered and perfected over the recent years using an exclusive high performance over-based calcium sulfonate complex thickener, high viscosity base oils, and a selected combination of polymer additives. This formulation creates excellent mechanical stability and supreme long lasting adhesion to the metal surfaces, preventing wipe off, giving this product exceptional lubricity, high load carrying capability, thermal stability, rust protection and excellent water washout resistance.

Royal Ultra 865 HD Grease does not contain any of the following harmful additives: antimony, barium, chlorine, lead, copper, graphite, phosphorus, sulfur or zinc. This product is environmentally friendly but is not biodegradable.

Product Features:

- Water Resistant and super tacky
- Balanced Timken & Weld Load for a superior EP performance
- Outstanding Mechanical Stability
- High Drop Point – Suitable for high temperature application
- Excellent rust protection properties
- Contains no Heavy Metals or other harmful additives

Customer Benefits:

- Excellent performance under heavy loads
- Forms strong film on metal surface and protects equipment from rust and water
- Superior protection under both Shock loading and Running conditions
- Do not drip out under running conditions
- Extraordinary performance at high temperatures
- Protects equipment from rusting under wet and water ingress conditions

Applications:

- **Royal Ultra 865 HD Grease** is highly recommended for marine, oil fields and logging applications but will perform virtually in all industrial applications like steel, mining, off highway, and automotive, especially where high temperature and water ingress environment prevails concurrently.



Typical Properties

Royal Ultra 865 HD Grease

Product Code	952AB	952AA	952AF	Test Method
NLGI grade	1	2	3	
Thickener type	Ca-Sulfonate	Ca-Sulfonate	Ca-Sulfonate	
Color	Amber	Amber	Amber	Visual
Base Oil viscosity				
SUS @ 100 F	2468	2468	2468	
SUS @ 210 F	148.2	148.2	148.2	ASTM D-445
cSt @ 40 C	460	460	460	
cSt @ 100 C	30.2	30.2	30.2	
Viscosity Index	> 94	> 94	> 94	
Drop Point, °F	+ 550	+ 550	+ 550	ASTM D2265
Worked Penetration at 25°C	310-340	265-295	220-250	ASTM D 217
Change after 100,000 strokes	< + 20	< + 20	< + 20	
Oil Separation , 25 C, 24 Hrs. , %	0.90	0.50	0.25	ASTM D 1742
Four Ball Weld load , kg	500	620	620	ASTM D 2783
Timken OK Load , lbs	>65	>65	>65	ASTM D 2509
Wear Scar Dia, mm	0.45	0.45	0.45	ASTM D 2266
Water Washout, wt. % loss @175 °F	2.3	1.3	1.0	ASTM D 1264
Water Spray off, %	< 25	16.0	< 10	ASTM D 4049
Rust Test , rating	Pass	Pass	Pass	ASTM D 1743
Oxidation Stability, PSI drop 100 hrs.	2.0	2.0	2.0	ASTM D 942

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 Material Safety Data Sheet (MSDS) found on our website. www.royalmfg.com or call (918)-584-2671.



35 Lb. Pails



120 Lb. Kegs



400 Lb. Drums



2,000 Lb.
Disposable Totes



50,000 Lb. Bulk