



## Royal 865M Grease

### *Heavy Duty Moly5 Calcium Sulfonate Complex Grease*

**Royal Ultra 865M Grease** has been carefully formulated using high viscosity base oil and overbased calcium sulfonate complex thickener system fortified with Moly (MoS<sub>2</sub>) and special additives providing this grease an outstanding Extreme Pressure properties, exhibiting excellent water repellency, oxidation resistance, and a wide operating temperature range.

**Royal Ultra 865M Grease** is formulated with an innovative and synergistic combination of 5% solid lubricants which physically adhere to the metal surfaces and form a strong protective film, preventing welding and reduce friction even under the most severe operating conditions such as very heavy and shock loads.

**Royal Ultra 865M Grease** is a heavy-duty extreme pressure grease formulated using high viscosity oil thus exhibiting outstanding film strength and resistance to corrosive saltwater environments.

**Royal Ultra 865M Grease** meets and exceeds the demanding automotive and industrial testing requirements of ASTM D 4950, earning it the GC-LB classification by the National Lubricating Grease Institute. This grease meets OEM requirements and is approved for central lubricating systems.

#### Product Features:

- Calcium sulfonate base with Molybdenum
- High viscosity base oil – VG 460
- Water Resistant
- Outstanding Extreme Pressure properties
- Wide temperature operability
- Approved by Komatsu as a CLS grease.

#### Customer Benefits:

- Extended service life of heavy-duty equipment
- Excellent performance under heavy and shock loads
- Extraordinary performance at high and low temperatures
- Protects equipment from rusting under humid and water ingress conditions

#### Applications:

**Royal Ultra 865M Grease** is an obvious choice for severe extreme pressure applications, particularly where the end user prefers a Moly fortified grease. It is recommended for the most extreme applications in off-highway construction, mining equipment, earth moving machines, as well as other heavy-duty construction and mining equipment moving at slow to medium speed including dragline, shovels, electric wheel motor sealing, anti-friction bearings, conveyors, horizontally moving open gears, crushers shakers and classifier bearings .



## Typical Properties

### Royal Ultra 865M Grease

Product Number	9510TB	9510TA	Test Method
<b>Thickener Type</b>	Calcium Sulfonate Complex	Calcium Sulfonate Complex	-
<b>Texture</b>	Smooth	Smooth	Visual
<b>Color</b>	Gray, Black	Gray, Black	Visual
<b>NLGI Grade</b>	1	2	ASTM D217
<b>Worked Penetration@25°C</b>	310-340	265-295	ASTM D217
<b>Drop Point, °F</b>	+500 F	+550 F	ASTM D2265
<b>Viscosity@40°C, cSt</b>	461	461	ASTM D445
<b>Viscosity@100°C, cSt</b>	30.2	30.2	
<b>Viscosity@100°F, SUS</b>	2474	2474	
<b>Viscosity@210°F, SUS</b>	148.2	148.2	
<b>Wheel Bearing Leakage, gm</b>	4.5	2.5	ASTM D1263
<b>Solid Lubricants, %</b>	5.0	5.0	
<b>Weld Load, kg</b>	500	620	ASTM D2596
<b>Load Wear Index</b>	65	65	ASTM D2596
<b>Timken OK load, lbs.</b>	>60	>65	ASTM D2509
<b>High Temperature Life @ 160 °C, hrs</b>	+ 200	+ 220	ASTM D 3527
<b>US Mobility Test</b>			USS DM 43
<b>@ 0 °F, gm/min</b>	33.2	11.2	
<b>@ - 20 °F, gm/min</b>	9.8	2.3	

These properties are typical of the current production. Variations in terms of tackiness and appearance 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](http://www.royalmfg.com) or call (918)-584-2671.