



Product Data Sheet



Royal Hercules Moly Grease

High Performance Heavy Duty Calcium Sulfonate Grease Moly Grease for Extreme Conditions

Royal Hercules Moly Grease is a heavy-duty calcium sulfonate complex grease embodied with solid lubricants especially designed for long service life under severe climate conditions. This grease is formulated with specially engineered, synergistic additives, to provide the highest performance under heavy loaded applications. Solid lubricants, specifically Molybdenum disulfide (MoS₂), has intentionally been embodied in our grease matrix so that this grease can effectively lubricate under extreme conditions, like boundary lubrication conditions. Unlike other calcium sulfonate complex greases available in the market this grease exhibit very good pumping characteristics comparable or better than lithium complex greases.

Royal Hercules Moly Grease is recommended for the most severe applications in industry with excellent performance, oxidation resistance and a wide operating temperature range.

Royal Hercules Moly Grease has very good pumpability and is recommended for centralized lubrication system with

Product Features:

- Pumpable at low temperatures operating temperatures – 18 °C to 250 °C
- High Timken & Weld Load
- Moly takes care of High Temperature & Extreme Pressure (EP) needs
- Outstanding Mechanical Stability
- High Drop Point – Suitable for high temperature application
- Excellent rust protection properties
- Very good water resistance and salt water protection

Customer Benefits:

- Excellent performance under heavy and shock loads
- Forms protective film on metal surface and protects equipment from rust and water even at low temperatures
- Extraordinary performance at high temperatures even beyond the limits of grease
- Protects equipment from rusting under wet and water ingress conditions

Applications:

Royal Hercules Moly Grease is highly recommended for mining, construction, oil fields and logging applications, where extremely high loads and shock loads are present. Besides excellent performance at high temperatures, this grease is suitable for other industrial applications where severe operating conditions prevails like steel, metal processing, off highway etc.





Typical Properties

Royal Hercules Moly Grease

Product Code	953 TM	Test Method
NLGI grade	1.5	-
Thickener type	Ca-Sulfonate	-
Color	Black	Visual
Base Oil viscosity		
SUS @ 100 °F	2468	
SUS @ 210 °F	148.2	ASTM D-445
cSt @ 40 °C	460	
cSt @ 100 °C	30.2	
Drop Point, °F	+ 500	ASTM D2265
Worked Penetration at 25°C	290-320	ASTM D 217
Change after 100,000 strokes	< + 25	-
Oil Separation , 25 C, 24 Hrs. , %	0.85	ASTM D 1742
Four Ball Weld load , kg	800	ASTM D 2783
Timken OK Load, lbs.	>65	ASTM D 2509
Wear Scar Dia, mm	0.45	ASTM D 2266
Water Washout, wt. % loss 175 °F	2.3	ASTM D 1264
Rust Test , rating	Pass	ASTM D 1743
USS Mobility Test.		USS DM 43
@ 0 °C , gm/min	80.3	
@ - 28 °C, gm/min	27.3	

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:



35 Lb. Pails



120 Lb. Kegs



400 Lb. Drums



2,000 Lb.



50,000 Lb. Bulk