

MHT Grease (DTD 900/4990)

High temperature molybdenum disulphide plain bearing grease

Product Overview

ROCOL® MHT Grease is a heavy duty bearing grease fortified with molybdenum disulphide. It has been designed for the effective lubrication and protection of plain bearings and sliding surfaces used in extreme environments, particularly in heavily loaded, slow moving applications operating above 100°C.

ROCOL MHT Grease combines the resilience of a silica thickener with the addition of molybdenum disulphide ensuring that a lubricating film exists under the most extreme loadings where the grease film can be squeezed out.

Features and Benefits

- ROCOL MHT Grease has an excellent temperature resistance from +100°C to +235°C (285°C short periods).
- It is a non-melting grease, fortified with molybdenum disulphide, for excellent temperature and water resistance.
- Molybdenum disulphide (MoS₂) has an affinity to the metal surfaces leaving a tenacious high load carrying film with a low coefficient of friction. This film provides an extremely durable layer reducing frictional heat and wear and extending component life and lubrication intervals.
- Ideal for highly loaded, slow moving applications due to its outstanding EP performance (315kg weld load).
- ROCOL MHT Grease is unaffected by low speed running.
- ROCOL MHT Grease has a low volatility base oil which continues to protect over extended lubrication intervals, reducing equipment failure, downtime and lubricant usage.

Directions for Storage and Use

- ROCOL MHT Grease can be applied manually, by grease gun, keg pump or by other methods suitable for dispensing NLGI No. 3 silica greases with solid additives.
- ROCOL MHT Grease is compatible with other silica thickened greases. However, for best results the previous lubricant should be removed prior to application.
- Avoid mixing ROCOL MHT Grease with soap thickened greases.
- The storage temperature should be controlled between +1°C and +40°C.
- Shelf life is 3 years from date of manufacture.

Specifications

- DTD 900/4990 (AFS 1300)
- MSRR 9378

Typical Applications

ROCOL MHT Grease is particularly suitable for heavily loaded, slow moving applications typically found in industries such as quarries, mining, marine, aerospace, MoD, docks, agriculture and construction.

ROCOL MHT Grease excels in applications where plain bearings, pins, bushes, slides etc. are subjected to extreme conditions.

Pack Sizes

Pack Size	Part Code
5kg	16166

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Property	Test Method	Result
Appearance	Visual	Smooth blue / black grease
NLGI No.	IP 50 – ASTM D217	2/3
Base Type	N/A	Severely refined mineral oil
Base Fluid Viscosity at 40°C	IP 71	460cSt
Base Fluid Viscosity at 100°C	IP 71	31cSt
Thickener	N/A	Silica
Solids	N/A	Molybdenum disulphide
Temperature Range	N/A	+100°C to +235°C (+285°C short periods)
Drop point	IP 132	None
4-Ball:		
Weld Load	IP 239 – ASTM D2596	315kg
Mean Hertz Load	IP 239 – ASTM D2596	56kg
Oil Separation 24 hrs at +100°C	IP 121	3%
Corrosion Test:		
4 hrs at +100°C - Copper	IP 112 – ASTM D130	No stain
4 hrs at +100°C - Mild Steel	IP 112 – ASTM D130	No stain
dmN	N/A	c100,000

Values quoted above are typical and do not constitute a specification.

Safety Data Sheets

Safety data sheets are available for download from our website www.rocol.com or may be obtained from your usual ROCOL contact.

The information in this publication is based on our experience and reports from customers. There are many factors outside our control or knowledge which affect the use and performance of our products, for which reason it is given without responsibility.

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