

## MX550

### High temperature silicone grease containing molybdenum disulphide

#### Product Overview

ROCOL® MX550 is a high temperature silicone grease containing molybdenum disulphide for improved load carrying performance.

ROCOL MX550 is formulated from a highly stable silicone fluid which exhibits an exceptionally high resistance to oxidation for extended life particularly when it is subjected to high temperatures for prolonged periods. ROCOL MX550 is also extremely tolerant where temperatures fluctuate between high and low during use.

The addition of molybdenum disulphide in the ROCOL MX550 provides excellent lubricating properties and ensures maximum wear protection over extended periods.

#### Features and Benefits

- Excellent extreme temperature resistance ranging from -45°C to +280°C.
- Due to the inclusion of molybdenum disulphide ROCOL MX550 has very good load carrying and anti-wear performance.
- ROCOL MX550 is highly resistant to oxidation demonstrating long life and exceptional stability even in the most aggressive conditions.
- ROCOL MX550 has very good chemical resistance.

#### Directions for Storage and Use

- ROCOL MX550 can be applied manually, by grease gun, keg pump or by other methods suitable for an NLGI No. 2 grease.
- It is recommended that equipment is clean and purged of all previous lubricants before applying ROCOL MX 550.
- The storage temperature should be controlled between +1°C and +40°C.
- Shelf life is 3 years from date of manufacture.

#### Typical Applications

- ROCOL MX550 is specially developed for the lubrication of steam turbine valve gear, pedestal bearings and sliding feet operating at high temperatures.
- ROCOL MX550's function is to allow for thermal expansion, permitting the turbine shell to easily slide and follow the turbine rotor as the turbine assembly expands and contracts. With steam temperature exceeding +500°C, this expansion can be quite excessive both axially and radially.
- ROCOL MX550 is officially recommended by GEC Turbines Ltd.

#### Pack Sizes

Pack Size	Part Code
5kg	12086
18kg	12084
50kg	12088

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Property	Test Method	Result
Appearance	Visual	Smooth blue/black grease
NLGI No.	IP 50 – ASTM D217	1/2
Base Type	N/A	Silicone
Thickener	N/A	Inorganic colloid
Solids	N/A	Molybdenum disulphide
Base Fluid Viscosity at 40°C	IP71 – ASTM D445	80cSt
Base Fluid Viscosity at 100°C	IP71 – ASTM D445	20cSt
Temperature Range	N/A	-45°C to +280°C
Drop Point	IP 132	Non-melting
Oil Separation - 24hrs @ 100°C	IP 121	<2.5%
Oxidation resistance (pressure drop)	IP 142	2 psi drop in 300 hours
Copper Corrosion Test 24hrs @ 100°C	IP 112 – ASTM D130	No stain
dmN Factor	N/A	100 000

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](http://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.

Issue: 2 Date: 02-11

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