

PRODUCT & TECHNICAL DATA

LMX GREASE Lithium complex grease

DESCRIPTION

LMX Grease is a lithium-complex thickened mineral oil based grease of NLGI No.2 consistency having extreme pressure properties and inhibited against oxidation and corrosion.

APPLICATIONS

Lithium complex greases have similar basic properties to conventional lithium soap greases but have the advantages of higher drop point, less oil separation particularly at high temperature and more stable consistency near the drop point of the grease. The drop point of these greases is typically 260 °C. This means that the maximum operating temperature is greatly increased over that of standard lithium soap greases and in many applications is limited only by what the base oil of the grease will stand.

Such performance characteristics mean that lithium complex greases such as LMX Grease have a longer life at higher temperatures than normal lithium soap greases. The water resistance and low temperature pumpability of lithium complex greases is also better than normal lithium soap greases. For these reasons, lithium complex grease finds wide acceptance as a high temperature grease for applications in the Marine and Offshore Industries where severe operating conditions necessitate an improvement over standard lithium greases.

FEATURES/BENEFITS

LMX grease offers an impressive number of desirable features that confer clear operational advantages and offer the customer distinct key benefits. The overall result is excellent cost effectiveness.

- Improved working temperature range and thermal stability.
- Reduced oil separation and resistance to hardening and pressure.

- Increased load-carrying capacity over wider working temperature range.
- Reduced wheel-bearing temperatures.
- Better water-resistance and adhesion to metal surfaces.
- Additional multi-purpose properties enabling easier grade rationalisation.

CARE AND HANDLING

Wash thoroughly after handling.

PACKAGING AND STORAGE

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings.

Products should not be stored above 60°C, exposed to hot sun or freezing conditions.



PRODUCT & TECHNICAL DATA

TECHNICAL DATA

TYPICAL CHARACTERISTICS	UNIT	TEST METHOD	VALUE
NLGI Classification		ASTM D217	LMX Grease 2
Base			Lithium Complex
Penetration, Worked, 0.1mm		ISO 2137	273
Base oil viscosity @ 40°C	cSt	ISO 3104 / ASTM D445	180
Drop Point	°C	ASTM D566	250
Operating Temp, min/max	°C		-30/170
Colour		Visual	Dark Brown
Additives			Extreme pressure, Corrosion & Oxidation Inhibitors

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.

GENERAL ADVICE

Further information on all Castrol Marine lubricants is available from any Castrol Marine office or from:

Castrol Marine www.castrolmarine.com
Technology Centre
Whitchurch Hill
Pangbourne
Reading RG8 7QR
United Kingdom

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet.

It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Material Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either BP plc or its subsidiaries for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material.

All products, services and information supplied are provided under our standard conditions of sale. You should consult our local representative if you require any further information. Castrol and the Castrol logo are the trade marks of Castrol Limited, used under licence.

© 2009 BP Marine Limited. All rights reserved.