Mobilgrease CM Series

Mobil Grease , New Zealand

Grease

Product Description

Mobilgrease CM Series products are a family of extra high performance extreme-pressure greases. Mobilgrease CM-P and CM-S are NLGI Grade 2, while Mobilgrease CM-W and CM-L are NLGI Grade 1. All four products are manufactured with a proprietary high-temperature, lithium complex thickener system. They exhibit excellent resistance to softening under severe working, and provide good adhesion and cohesion. An extreme-pressure additive provides exceptional protection against wear, while additional additives enhance resistance to high-temperature oxidation and protection against rust. In addition, Mobilgrease CM-P and Mobilgrease CM-L contain 3% molybdenum sulphide for additional wear protection. Other formulation features provide low-temperature dispensing, very good resistance to water wash, and long service in bearings operating at high temperatures. These heavy-duty, severe-service greases have outstanding structural and chemical stability. Mobilgrease CM Series products won't corrode steel or copper-bearing alloys and are compatible with conventional seal materials.

Mobilgrease CM greases are recommended by ExxonMobil for use in for construction and mining sector applications. Mobilgrease CM-P is recommended by ExxonMobil for use in for highly loaded plain and antifriction bearings and other applications where the three percent molybdenum disulphide and high-temperature thickener system will provide extraordinary performance. Mobilgrease CM-S is recommended by ExxonMobil for use in plain and antifriction bearings in contractor and mining vehicles working under severe operating and weather conditions. The recommended application temperature range for Mobilgrease CM-P and CM-S is -20° C to +145° C Mobilgrease CM-L and CM-W are winter-grade products and are recommended for cold-temperature service. The recommended application temperature range for Mobilgrease CM-L and CM-W is -30° C to +145° C

Features and Benefits

Mobilgrease CM Series greases are designed specifically to meet the needs of customers with heavily loaded equipment that require high EP/antiwear performance which remain in place even in tough conditions of water wash, high sliding and high temperature. These greases are targeted especially for the severe construction and mining sector and offer the following features and potential benefits:

Mobilgrease CM Series greases are leading members of the Mobilgrease brand of products, which has gained a world-wide reputation for innovation and performance excellence. Mobilgrease CM Series grease products are designed by our formulation technologists and backed by our world-wide technical support staff.

Features	Advantages and Potential Benefits
Excellent resistance to water, including spray	Maintains excellent lubrication properties and protects equipment in conditions of water contamination
Very good EP and anti-wear protection	Lower maintenance costs and less unanticipated downtime
Better stay-put properties at high temperatures	Excellent performance in high shear, high load applications, especially where grease re-supply is limited
Resists rust and corrosion	Protects equipment in presence of water for reduced maintenance and longer equipment life
Good pumpability at low temperatures	Excellent low temperature properties including start-up in remote locations

Applications

Recommended by ExxonMobil for use in:

- Heavily loaded applications or environments highly contaminated with water, especially in the contractor / mining sector. Specific examples of such applications include:
- Heavy-duty trucks especially, hinge and bucket pins

- Mining and construction equipment

Specifications and Approvals

This product meets or exceeds the requirements of:	CM-P
DIN 51825: 2004-06 KPF2N-20L	X

Properties and Specifications

Property	CM-L	CM-P	CM-S	CM-W
Grade	NLGI 1	NLGI 2	NLGI 2	NLGI 1
Thickener Type	Lithium Complex	Lithium Complex	Lithium Complex	Lithium Complex
Color, Visual	Gray-Black	Gray-Black	Orange	Orange
Copper Strip Corrosion, 24 h, 100 C, Rating, ASTM D4048	1A	1A	1A	1A
Corrosion Preventive Properties, Rating, ASTM D1743	Pass	Pass	Pass	Pass
Dropping Point, °C, ASTM D2265	260	260	260	260
Four-Ball Extreme Pressure Test, Weld Point, kgf, ASTM D2596	400	400	250	250
Four-Ball Wear Test, Scar Diameter, mm, ASTM D2266	0.5	0.5	0.5	0.5
Penetration, 60X, 0.1 mm, ASTM D217	325	280	280	325
Roll Stability, Penetration Consistency Change, 0.1 mm, ASTM D1831	-15	-3	-4	-15
Viscosity @ 100 C, Base Oil, mm2/s, ASTM D445	14.5	23.9	23.9	14.5
Viscosity @ 40 C, Base Oil, mm2/s, ASTM D445	150	320	320	150
Viscosity Index, ASTM D2270	94	95	95	94
Water Washout, Loss @ 79 C, wt%, ASTM D1264	12	6	6	12

Health and Safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ http://www.msds.exxonmobil.com/psims/psims.aspx

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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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