

Product Data Sheet

Mining & Earthmoving Grease

Description

MINING & EARTHMOVING GREASE is a premium technologically advanced calcium sulphonate complex EP grease for use in mining, quarrying, and heavy industry.

The unique over based calcium complex thickener system used in **MINING & EARTHMOVING GREASE** has inherent properties that provide exceptional water resistance and corrosion protection, excellent extreme pressure and anti-wear performance, and high temperature stability. Calcium sulfonate complex greases are purposely designed for high performance in demanding applications. The thickener structure proves beneficial in meeting the demands of high loads, temperatures and shear forces in wet and dirty environments.

MINING & EARTHMOVING GREASE offers exceptional performance as characterised by superior mechanical stability particularly in the presence of high levels of water, high load carrying performance, high dropping point, reduced wear, and excellent resistance to water washout and corrosion.

It is specifically designed to perform well under the harshest conditions found in mining and quarrying environments, steel mills, pulp and paper mills and other similar industries.

It is ideally suited to applications where heat, water and extreme loads are encountered.

Applications

MINING & EARTHMOVING GREASE is recommended for a wide variety of heavy industrial greasing applications.

It is a premium quality, high performance, extreme pressure (EP) calcium sulfonate complex grease developed to satisfy the severe lubrication requirements of mining, off road, and heavy industrial equipment: -

It is recommended for use in: -

- Chassis parts & wheel bearings in haul trucks, cranes, scrapers, shovels, drag lines and other equipment operating under wet conditions, moderate to high temperatures and heavy or shock loads
- Heavily loaded plain and rolling element bearings in industrial and mobile equipment where the manufacturer specifies a high-temperature, EP grease
- Shaker screens, hammer mills, rock crushing equipment, slew ring bearings, vibration compactors.

MINING & EARTHMOVING GREASE is also suitable for other automotive and industrial applications requiring excellent rust and corrosion protection. These include rolling element bearings, plain bearings, chassis parts, gears and couplings, particularly where water is present such as in steel mills, underground tunnelling, fertilizer plants, shipping cranes, or mining and ore crushing plants.

NOTE: Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

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Key Benefits

- Excellent high temperature performance
- Superior water resistance
- Excellent extreme pressure and load carrying performance and resistance to wear
- Superior rust and corrosion resistance
- Excellent oxidation and thermal stability
- Good mechanical and shear stability
- Good low temperature pumpability and performance

Typical Test Data

Property	Method	Typical
NLGI Grade		2
Thickener Type		Calcium sulphonate complex
Colour, Visual		Green, Smooth
Corrosion, Cu strip, 24hr @100°C	ASTM D130	1b
Penetration, Worked, 25° C,	ASTM D217	283
Dropping Point, °C,	ASTM D2265	305
Base Oil Viscosity, cSt @ 40° C	ASTM D445	320
4-Ball Wear Test, scar, mm	ASTM D2266	0.39
4-Ball EP Weld Point, kgf	ASTM D2596	800
Timken OK Load, kg	ASTM D2509	36
Oil Separation, 24 hr @25°C, m%	ASTM D1742	0.2
Wheel Bearing Leakage, m%	ASTM D1263	1.0
Water Resistance @ 90°C, %	DIN 51807	1.0
Water Washout, 80°C, % loss	ASTM D1264	0.7
Water Spray Off, % loss	ASTM D4049	11
Salt Water Fog Corrosion, 1 Mil d.f.t, hrs	ASTM B117	>1000
Usable temperature range in continuous service		-25 to 180°C
Maximum temperature for short term exposure		250°C

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Storage and Handling

Wherever possible store this product under cover to avoid any ingress of water. Do not store near hot work areas or where temperatures can reach above 60° C.

Health, Safety and Environment

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Safety Data Sheet (SDS) are followed. This product should not be used for purposes other than its intended use.

Consult the Safety Data Sheet available by contacting The Millstream Group Pty Ltd office for further information.

Package Sizes

Item Code	Pack Size
MG0414202-0180	180 kg drum
MG0414202-0020	20kg pail
MG0414202-0450	450g cartridge (12 x 450g/ctn)

Version
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