



M23

SEVERE SERVICE HIGH TEMPERATURE E.P. GREASE

DESCRIPTION

M23 is a heavy duty, non-melt industrial grease, designed for superior mechanical stability and exceptional extreme pressure and moisture resistance.

M23 is recommended for use in extreme heat applications, often found in industrial or vehicular lubrication system.

APPLICATIONS

Industrial Factories (Steel Mills, Petrochemicals, Glassworks, Brickyards...)

Bearings operating at high temperature under heavy load (slow speed), shafts, open gears and drives, cams and slides, articulated joints, hinges, threads, cams, pistons, valves and hose coupling...

Industrial Equipment

Dollies, fork lift guides, slides conveyors, garage door tracks, tools, rollers, boilers, extraction fans, adjusting screen threads, pumps...

Automotive, Buses, Trucks and Heavy Equipments

Bearings, hinges, linkage and springs, fifth wheel, telescopic arms, slides, door handles and tracks, rubber bushings and absorber pads, cams and pistons, cables and gears, latches...

PRODUCT BENEFITS

- Non-melt formulation; enable mechanisms to operate in excess of 260°C.
- Excellent resistance to oxidation; long term protection of surfaces from corrosives attack by acids or chemicals.
- Unique anti-wear and extreme-pressure properties to protect mechanisms from overloads and shock loads.
- Moisture resistant and all weather performance.
- Perfect adhesion to metals surfaces with its special fortified synthetic polymers.
- Resists extreme shearing even after several months in operation.
- Good stability over prolonged periods.
- Extends life of mechanisms subjected to high temperatures.
- Reduces early bearing replacement.
- Reduces labour cost and downtime.

APPROVALS

Exceeds the performance requirements of US Military Specifications MIL-G-18709A and MIL-G-23549B.

Orapi Applied (S) Pte Ltd

No 26 Tuas Avenue 13 Singapore 638992

Tel: +65 6265 2888

Fax: +65 6268 6474

Inquiries: sin.sales@orapi.com.sg

Web Site: www.orapi.com



TDS 623 / 002 – 25/07/2017

1/2

The ORAPI Group designs, manufactures and markets "Highly Technical Solutions" for Maintenance Repair and overhaul of machines and equipments. The Group is present in over 100 countries with 32 subsidiaries and an international network of import-distributors. The Group operates 7 manufacturing plants and 4 laboratories of R&D. ORAPI is certified ISO 9001 and ISO 14001.

PHYSICAL PROPERTIES

Appearance:	Tacky Paste
Colour:	Red
Thickener:	Bentonite Clay
Base Oil	Mineral
Viscosity Base Oil SUS @ 40°C	750 cSt
Viscosity Base Oil SUS @ 100°C.....	155 cSt
Density	0.91
NLGI grade.....	2
Work Penetration (NFT 60-132)	265 / 295
Drop point (NFT 60-102)	None
Pour point	-15° C
Flash Point	288° C
Operating Speed	Up to 3500 RPM
Timken O.K. load (ASTM D2509).....	65LB
Oxidation PSI Drop @ 100 hrs (ASTM D942)	3
Wheel Bearing Leakage, gram loss (ASTM D1263).....	<5
Oil Separation, % loss (ASTM D6184)	<3
Operating temperature range	-20 to + 260° C

DIRECTIONS FOR USE

M23 is not compatible with the following greases: calcium complex, aluminium complex, lithium, lithium complex, silica, sodium.

Complete purging or cleaning is required.

Clean surfaces to be lubricated with a solvent. Apply grease in thin layers to surfaces.

STORAGE & SAFETY

Two years, stored in closed original packaging at ambient temperature.

Under normal condition of use, no specific hazard.

For further information, please consult the Materials Safety Data Sheet.

PACKAGING

Cartridge 400g x 10	(ref: O-0623-C4)
Pail 35 Lb	(ref: O-0623-O1)

WARRANTY

The information contained herein is presented without guarantee or warranty and the Seller disclaims any liability incurred from the use thereof. Nothing contained herein is to be construed as a recommendation for any use in a commercial process not controlled by the Seller, nor for a use which is in violation of any existing patent, foreign or domestic, or of applicable laws and regulations. THE SELLER MARKS NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, EXCEPT AS EXPRESSLY STATED IN SELLER'S SALES CONTRACT OR SALES ACKNOWLEDGEMENT FORM.

Orapi Applied (S) Pte Ltd

No 26 Tuas Avenue 13 Singapore 638992

Tel: +65 6265 2888

Fax: +65 6268 6474

Inquiries: sin.sales@orapi.com.sg

Web Site: www.orapi.com



TDS 623 / 002 – 25/07/2017

2/2

The ORAPI Group designs, manufactures and markets "Highly Technical Solutions" for Maintenance Repair and overhaul of machines and equipments. The Group is present in over 100 countries with 32 subsidiaries and an international network of import-distributors. The Group operates 7 manufacturing plants and 4 laboratories of R&D. ORAPI is certified ISO 9001 and ISO 14001.