



Meropa® WM

High performance industrial gear lubricant

Product Data Sheet

Product description

Meropa WM is a high performance industrial gear lubricant designed to promote wear protection in enclosed gears and other equipment operating under high load and high shock load conditions and offers robust micropitting protection.

Meropa WM is formulated with mineral base stocks in combination with high performance sulphur-phosphorus extreme pressure (EP) additives and is designed to surpass load stage 10 in the FZG Micro Pitting test (FVA.54/I-IV) and is therefore classified as GFT-High. Meropa WM lubricants are available in ISO viscosity grades ranging from 100 through 680.

Customer benefits

- High performance formulation offers reliable micropitting protection, helping minimise wear and maintenance
- Robust EP performance designed to promote high load and high shock load protection and increased equipment uptime
- Oxidation and thermal stability contributes to long lubricant service life and optimum system performance and protection
- Dependable rust and corrosion resistance aids critical component protection, performance and system service life
- Good foam resistance and water separating characteristics offer protection to circulating systems with potential water contamination
- Non-corrosive to gear and bearing materials including steel, copper, bronze, Babbitt or cadmium-nickel, helping reduce maintenance

Applications

- Meropa WM is recommended for the lubrication of a wide variety of industrial and mobile equipment, chain drives, sprockets, plain and anti-friction bearings, slide guides, and flexible couplings

Product highlights:

- Micropitting protection and increased equipment uptime
- High shock load protection
- Long lubricant service life, performance and protection
- Rust and corrosion resistance
- Foam resistance and water separation
- Selected specification standards include:
 - AGMA
 - Cincinatti Milacron
 - David Brown
 - DIN
 - Flender
 - US Steel
 - Valmet

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- Meropa WM is particularly recommended for enclosed gear drives and speed reducers, ranging from fractional kilowatt gear motors to large, high power units on metal rolling mills, cement mills, and mine hoists
- Meropa WM is suitable for the lubrication of industrial hypoid-type gears and for use in transmission gear case and worm drive axles on automotive, construction and mining equipment and plastic extruder gearboxes
- Meropa WM is suitable for use in bath, splash and circulation applications
- The lighter Meropa WM grades are recommended for mist systems used in a wide variety of applications such as steel, aluminium, chemical and paper machine lubrication and the machine tool and material handling equipment industries, where equipment such as Norgren and Alemite is employed
- Meropa WM is suitable for marine gearing such as main propulsion, centrifuges and deck machinery including winches, windlasses, cranes, turning gear, pumps, skip lines, elevators and rudder carriers
- Meropa WM 320 is used in wind turbine applications

Approvals, performance and recommendations

Approvals

- David Brown
- Cincinnati Milacron
- Valmet

Performance

- US Steel 224
- AGMA 9005-E02
- DIN 51517/3

Recommendations

- Meropa WM is recommended and suitable for use in Flender helical, bevel-helical, planetary gear boxes and geared motors.



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Typical test data

MEROPA WM				
TEST	TEST METHODS	RESULTS		
Viscosity Grade		100	150	220
Product Code		040045.1	040046.1	033017
Visc. Kinematic at 40 °C	ISO 3104	100	150	220
Visc. Kinematic at 100 °C	ISO 3104	11.2	14.5	19.1
Visc. Index	ISO 2909	97	97	97
Flash Point, °C	ISO 2592	240	248	250
Pour point, °C	ISO 3016	-27	-24	-24
Density, 15 °C, Kg/l	ASTM D1298	0.887	0.891	0.893
FZG Damaged Load, A/16.6/90	DIN 51354	>12	>12	>12
FZG Damaged Load, A/8.3/90	CEC L-07-A-95	11	12	12
FZG Micro Pitting FVA I-IV	FVA I-IV			
- Damage Loadstage		-	-	>10
- GFT Classification		-	-	High

continued

Typical test data

MEROPA WM				
TEST	TEST METHODS	RESULTS		
Viscosity Grade		320	460	680
Product Code		033115	040047.1	002482.1
Visc. Kinematic at 40 °C	ISO 3104	320	460	680
Visc. Kinematic at 100 °C	ISO 3104	24.4	30.9	40
Visc. Index	ISO 2909	97	97	97
Flash Point, °C	ISO 2592	250	254	254
Pour point, °C	ISO 3016	-9	-15	-15
Density, 15 °C, Kg/l	ASTM D1298	0.895	0.903	0.905
FZG Damaged Load, A/16.6/90	DIN 51354	>12	>12	>12
FZG Damaged Load, A/8.3/90	CEC L-07-A-95	-	-	-
FZG Micro Pitting FVA I-IV	FVA I-IV			
- Damage Loadstage		>10	-	-
- GFT Classification		High	-	-

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

Disclaimer Chevron accepts no liability for any loss or damage suffered as a result of using this product for any application other than applications specifically stated in any Product Data Sheet's.

Health, safety, storage and environmental Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application and in accordance with the recommendations provided in the Material Safety Data Sheet (MSDS). MSDS's are available upon request through your local sales office, or via the Internet. This product should not be used for purposes other than its intended use. When disposing of used product, take care to protect the environment and follow local legislation.

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