Meropa®

Extreme Pressure Industrial Gear Oil

Product description

Meropa® oils are high performance, mild EP, industrial gear lubricant formulated with a sulfurphosphorus additive system, which also provides rust and oxidation inhibition, a corrosion and oxidation inhibitor and a metal passivator.

Meropa is specifically designed primarily for industrial gear lubrication services where loads and shock loadings are high.

Customer benefits

- **Maintains gear set efficiencies**
  High thermal stability EP system maintains clean gear and bearing surfaces, minimizing deposits which interfere with effective lubrication. High oxidation stability limits in-service viscosity increases, which lead to energy losses.

- **Protects metal surfaces**
  Extremely effective EP system forms a protective film in areas of metal-to-metal contact, minimizing wear rates and maintaining efficient transfer of power. Good water separation and effective rust inhibitors protect surfaces against rust and corrosion. High thermal stability additive system reduces the formation of high temperature compounds which can be corrosive to bearing materials. The effective corrosion inhibitor provides additional protection for metal components.

- **Effective oxidation stability**
  Effective oxidation inhibitors and copper passivator minimize oil oxidation, limiting viscosity increase and can extend oil drain intervals.

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Applications

Can include:

- Enclosed industrial gear drives.

- Open gear drives (heavy grades).

- Spur, bevel, helical, worm and industrial hypoid gear cases.

- Industrial type reduction gearboxes on mining equipment, cement mills, ball and rolling mills, crushers, conveyors, kilns, winches, machine tools and marine equipment.

- Chain drives, sprockets, slide guides and flexible couplings.

- Plain and rolling element bearings.

- For bath, splash, circulation or spray lubrication, as applicable to the grade.

Approvals, performance and recommendations

- ANSI/AGMA 9005-E02 EP

- AIST 224 (formerly U.S. Steel 224) (Grades 68 to 320)

- David Brown, Table E, approved (Grades 68 to 1000)

- DIN 51517 Part 3 CLP (Grades 68 to 680)

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Typical test data

MEROPA®	RESULT								
ISO Grade	**68**	**100**	**150**	**220**	**320**	**460**	**680**	**1000**	**3200**
Product Code	**530400**	**530409**	**530401**	**530402**	**530403**	**530404**	**530405**	**530406**	**530408**
(Former) AGMA Lubricant No	2EP	3EP	4EP	5EP	6EP	7EP	8EP	9EP	10EP
David Brown Grade	2E	3E	4E	5E	6E	7E	8E	9E	–
FZG Pass Stage	12	12	12	12	12	12	12	12	12
Pour point, °C	-15	-15	-15	-15	-15	-15	-12	-3	0
Timken OK Load, kg	31.8	31.8	31.8	34.0	34.0	34.0	34.0	34.0	34.0
Viscosity, mm²/s @ 40°C mm²/s @ 100°C	68 8.8	100 11.4	150 14.9	220 19.2	320 24.3	439 29.8	650 36.5	955 44.0	3050 –
Viscosity Index	101	100	99	98	97	96	91	85	–

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ENVIRONMENT, HEALTH, and SAFETY. Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions, and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit the Product Information Center.

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