



## PETRONAS GEAR MEP

### High performance Industrial Extreme Pressure Gear Oils

PETRONAS GEAR MEP series includes high performance extreme pressure (EP) industrial gear oils specially formulated for the lubrication of industrial gears subjected to severe loads and shock loading conditions. It is formulated from specially selected premium quality base oils for their oxidation stability and water separating characteristics, and further fortified with selected sulphur-phosphorous additives system to provide outstanding extreme pressure properties and wear protection, enhanced oxidation stability and resistance to rusting and foaming.

#### Applications

- Recommended for the lubrication of:
- All types of enclosed gears (spur, helical, bevel) with circulation or splash lubrication systems especially where operating conditions involve heavy or shock loads.
  - Industrial type reduction gearboxes on mining equipments, cement mills, ball and rolling mills, crushers, conveyors, kiln, winches, machine tools and marine equipments.
  - Non gear applications include shaft couplings.
  - Screws and plain and rolling contact bearings.

#### Benefits

- Outstanding load carrying properties protect against shock loading and prevent scuffing thereby extending equipment life.
- Superior thermal and oxidation stability to resist oil degradation and thickening for longer oil service life.
- Rapid water separation and anti-foam properties to ensure trouble - free operation.
- Specially selected additives system prevent the formation of damaging deposits, varnish and rust.
- Reduced downtime because of prolonged lubricant life and increased equipment reliability.

#### Specifications

- DIN 51517 Part III
- ISO 3498 / 6743 - 6
- AGMA 9005 - E02
- David Brown S1.53.101
- US Steel 224

#### Typical characteristics:

CHARACTERISTIC	METHOD	PETRONAS GEAR MEP					
ISO VG	—	150	220	320	460	680	1000*
DENSITY @ 29.5 °C	ASTM D 4052	0.88	0.88	0.88	0.88	0.89	0.89
KINEMATIC VISCOSITY @ 40 °C, cSt	ASTM D 445	150	220	320	460	680	1000
VISCOSITY INDEX	ASTM D 2270	100	95	95	90	90	90
FLASH POINT, °C, min	ASTM D 92	245	250	250	250	250	250
POUR POINT, °C, max	ASTM D 97	-20	-15	-15	-10	-10	-10
RUST TEST	ASTM D 665	PASS	PASS	PASS	PASS	PASS	PASS
FZG GEAR TEST, PASS STAGE, min	DIN 51354	12	12	12	12	12	12
4 BALL EP TEST	ASTM D 2783	200	250	250	250	250	250

\*Made available on request.



## Customer Advice

This product data sheet and the information contained therein is believed to be accurate. Data provided is based on standard tests under laboratory conditions and is given as a guide only. No responsibility is taken by the company for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. For further assistance on product MSDS, recommendation or technical queries, please liaise with the regional technical services engineer or contact HQ technical engineers.

## PETRONAS LUBRICANTS (INDIA) PVT. LTD.

204 & 205, 2nd Floor, 349 Business Point, Western Express Highway, Andheri (East), Mumbai - 400069.

Tel: (022) 6771-7500, E-mail: [industrialsupport@pli.petronasindia.com](mailto:industrialsupport@pli.petronasindia.com)