

PETRONAS LUBRICANTS

Gear MEP

High Performance Industrial Extreme Pressure Gear Oils

Intro

PETRONAS Gear MEP are high performance extreme pressure (EP) industrial gear oils specially formulated for the lubrication of industrial gears subjected to severe loads and shock loading services.

It is formulated from specially selected premium quality base oils for their oxidation stability and water separating characteristics, and further fortified with a selected sulphurphosphorous additive system to provide outstanding extreme pressure and wear protection, enhanced oxidation stability and resistance to rusting and foaming. It is available in ISO 32 through ISO 680* viscosity grades.

Applications

Recommended for the lubrication of:

- All types of enclosed gears with circulation or splash lubrication systems especially where the operating conditions involve heavy loads, high speed and high relative sliding velocities.
- Industrial type reduction gearboxes on mining equipment, cement mills, ball and rolling mills, crushers, conveyors, kilns, winches, machine tools and marine equipment.
- Coupling, spindles and plain bearings.

Customer Benefits

- Outstanding load carrying properties protect against shock loading and prevent scuffing.
- 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 additive system prevents the formation of damaging deposits, varnish and rust.

Product Typicals

Characteristics	ISO Viscosity Grade				
	32	68	100	150	220
AGMA Grades		2EP	3EP	4EP	5EP
Density @ 15 °C, kg/l	0.892	0.897	0.898	0.899	0.899
Pour Point, °C	-9	-9	-9	-9	-9
Flash Point °C	219	204	222	255	252
Kinematic Viscosity, cSt					
@ 40 °C	32	68	100	150	220
@ 100 °C	5.3	8.5	11.1	14.6	18.7
Viscosity Index	95	5	95	95	95

Characteristics	ISO Viscosity Grade		
	320	460	680*
AGMA Grades	6EP	7EP	8EP
Density @ 15 °C, kg/l	0.903	0.904	0.915
Pour Point, °C	-9	-9	-9
Flash Point °C	252	252	252
Kinematic Viscosity, cSt			
@ 40 °C	320	460	680
@ 100 °C	24.0	30.4	35.4
Viscosity Index	95	95	90

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Specifications

- U.S. Steel 224
- AGMA 250.04
- DIN 51517 Part 3 CLP
- ASLE EP