



Mobilgear™ EP Series

Mobil Industrial , South Africa

Extreme Pressure Gear Oil

Product Description

Mobilgear EP lubricants are a family of industrial extreme pressure gear lubricants formulated with high quality mineral oils, which help reduce sludge formation and increase oil service life.

Mobilgear EP oils contain an additive system that gives high load carrying ability, protection against wear and corrosion whilst ensuring good water handling properties.

Mobilgear EP oils are suitable for use wherever industrial gear oils are specified, in either splash or circulating systems, providing protection in applications with constant or shock loading.

Features and Benefits

Features	Advantages and Potential Benefits
Extreme pressure wear protection of gears and bearings	Less gear and bearing wear resulting in unexpected downtime
Good resistance to oxidation and thermal degradation	Contributes to extended lubricant life and lower lubrication costs
Resistance to sludge and deposit formation	Helps keep the system clean and reduce maintenance
Good demulsibility and corrosion protection	Protection in presence of humidity and ease water separation
Applicable for use in splash or circulation systems	Wide range of applications helps simplify the inventory

Applications

Mobilgear EP gear oils are suitable for a wide range of industrial spur, helical, bevel and steel-on-steel worm gearing, including drives for conveyers, agitators, dryers, fans, mixers, presses, pulpers, pumps, screens, extruders, and oil well pumps.

Properties and Specifications

Property	MOBILGEAR 150 EP	MOBILGEAR 220 EP	MOBILGEAR 320 EP	MOBILGEAR 460 EP
Grade	ISO 150	ISO 220	ISO 320	ISO 460
Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130	1B	1B	1B	1B
Density @ 15 C, g/ml, ASTM D1298	0.89			
Density @ 15 C, kg/l, ASTM D4052		0.89	0.89	0.91
Emulsion, Time to 37 mL Water, 82 C, min, ASTM D1401	15	15	15	15
FZG Scuffing, A/8.3/90, Fail Stage, Rating, DIN 51354	12+	12+	12+	12+
Flash Point, Cleveland Open Cup, °C, ASTM D92	260	260	260	260

Property	MOBILGEAR 150EP	MOBILGEAR 220EP	MOBILGEAR 320EP	MOBILGEAR 460EP
Four-Ball Extreme Pressure Test, Load Wear Index, kgf, ASTM D2783	56	60	60	60
Four-Ball Extreme Pressure Test, Weld Load, kgf, ASTM D2783	300	300	300	300
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	14.4	18.5	23.7	30
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	150	220	320	460
Pour Point, °C, ASTM D97	-18	-9	-9	-9
Rust Characteristics, Procedure B, ASTM D665	PASS	PASS	PASS	PASS
Viscosity Index, ASTM D2270	95	95	95	95

Health and Safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ <http://www.msds.exxonmobil.com/psims/psims.aspx>

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