

Liquid-O-Ring®*

YOUR SUPER CENTER FOR OVER 1,000 TOP PERFORMANCE PRODUCTS SERVING INDUSTRIES WORLDWIDE

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PM100

AUTOMOTIVE GEAR OIL

- GEAR OILS
- MOTOR OILS
- HYDRAULIC OILS
- PIPE COATINGS
- THREAD SEALANTS
- BEARING GREASES
- SPECIALTY GREASES
- THREAD COMPOUNDS
- SUCKER ROD COATINGS
- OUTSIDE PRESERVATIVES
- WIRELINE GREASE SEALS
- CLEANERS & DEGREASERS
- PIPE STORAGE COMPOUNDS
- RUST & CORROSION INHIBITORS
- THREAD LOCKING COMPOUNDS
- VALVE LUBRICANTS & SEALANTS
- TOOL JOINT & DRILL COLLAR COMPOUNDS

PRODUCT DESCRIPTION

PM100 Gear Oil is a heavy-duty, premium gear oil manufactured using highly-refined paraffinic base oils. PM100 Gear Oil is formulated with outstanding extreme pressure (EP) characteristics and load-carrying properties intended for use in all gearboxes. Extreme conditions, extended running times, and inclement weather conditions, are common in on and off-road operations—PM100 Gear Oil was developed to protect gears from major problems, particularly water contamination, overheating, heavy loads, and wear. PM100 Gear Oil exceeds the demands placed on gear oil used in automotive and heavy-duty equipment.

BENEFITS

- Superior water separating characteristics.
- Will not emulsify
- Coats all parts of the gearbox upon contact
- Protects against corrosion
- Extends heat range minimum viscosity change
- Provides extended service
- Extreme pressure (EP) properties
- Excellent lubrication of heavily-loaded gears
- Reduces operational cost
- Increases lubricity
- Smoother, quieter running, and cooler gears
- Longer intervals between overhauls

RELATED PRODUCTS

- 1050 Synthetic Gear Oil
- 1051 Biodegradable Gear Oil
- 750 Gear Oil
- 753 Gear Oil Additive
- 754 Synthetic, Biodegradable Gear Oil Additive
- PM100L Industrial and Automotive Gear Oil with LIQUILON®*
- PM201 Engine Guard

APPLICATION

PM100 Gear Oil is recommended for a variety of gear systems found in the industrial, commercial, and automotive industries. It can be used for light or heavy-duty applications, and also in on or off-road conditions.

TYPICAL OBSERVATIONS

	PM10080W90	PM10085W140	SAE140	SAE250
ISO Grade	—	—	—	—
SAE Grade (Reference)	—	—	—	—
AGMA	5EP	7EP	7EP	8EP
Viscosity Index	90	94	94	98
Color	Green	Green	Green	Green
Density, lb/gal @ 77°F (25°C)	7.43	7.75	7.35	7.38
Specific Gravity @ 77°F (25°C)	—	—	—	—
Viscosity, ASTM D-445 cSt @ 40°C (104°F)	220	460	460	1000
cSt @ 100°C (212°F)	18	30	30	46
Evaporation Loss, ASTM D-972 @ 210°F (98°C)	—	—	—	—
Flash Point, ASTM D-93	530°F (276°C)	530°F (276°C)	530°F (276°C)	530°F (276°C)
Fire Point, ASTM, D-92	>600°F (>315°C)	>600°F (>315°C)	>600°F (>315°C)	>600°F (>315°C)
Pour Point, ASTM D-97	-9°F (-24°C)	5°F (-15°C)	5°F (-15°C)	16°F (-9°C)
Rust Preventive Test, ASTM D-3603 @ 140°F (60°C)	Fresh—Pass Salt—Pass	Fresh—Pass Salt—Pass	Fresh—Pass Salt—Pass	Fresh—Pass Salt—Pass
Foam Test	Pass	Pass	Pass	Pass
D1401 Demulsibility @ 180°F (82°C)	Pass	Pass	Pass	Pass
Shelf Life (unopened container)	Two Years	Two Years	Two Years	Two Years



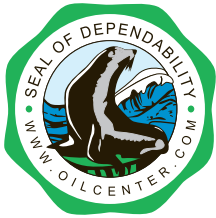
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Manufactured by
BALMAR LLC

616 WEST PONT DES MOUTON ROAD | LAFAYETTE, LA 70507

Sales Locations:
LAFAYETTE, LA | HOUSTON, TX | LONGVIEW, TX | MIDLAND, TX | OKLAHOMA CITY, OK

*Registered trade name of Oil Center Research, Inc. 11/19/13
The product information and specifications listed in this publication are constantly being updated to keep up with government regulations and technology changes. Please visit our web site, www.oilcenter.com, or contact your Account Representative for the most current information relating to this product.



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PRODUCT DESCRIPTION

PM100 Gear Oil is a heavy-duty, premium, industrial quality gear oil manufactured using highly-refined paraffinic base oils. PM100 Gear Oil is formulated with outstanding extreme pressure (EP) characteristics and load-carrying properties intended for use in heavy-duty gearboxes. Extreme conditions, extended running times and inclement weather conditions, are common place in today's manufacturing and oilfield industries—PM100 Gear Oil was developed to protect gears from major problems, particularly water contamination, overheating, heavy loads, and wear. PM100 Gear Oil exceeds the demands placed on gear oil used in automotive and heavy-duty equipment.

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TYPICAL OBSERVATIONS

	PM100/32	PM100/46	PM100/68	PM100/100	PM100/150	PM100/220	PM100/320	PM100/460
ISO Grade	32	46	68	100	150	220	320	460
SAE Grade (Reference)	—	—	—	—	—	90	85W140	140
AGMA	—	1EP	2EP	3EP	4EP	5EP	6EP	7EP
Viscosity Index	111.38	164.13	142.08	110	111	90	95	94
Color	Green	Green	Green	Green	Green	Green	Green	Green
Density, lb/gal @ 77°F (25°C)	7.0	7.12	7.15	7.15	7.20	7.23	7.35	7.47
Specific Gravity @ 77°F (25°C)	0.838	0.853	0.856	0.85	0.86	0.86	0.88	0.89
Viscosity, ASTM D-445 cSt @ 40°C (104°F) cSt @ 100°C (212°F)	32 5.56	46 8.5	68 10.5	100 12	150 16	220 18	320 24	460 30
Evaporation Loss, ASTM D-972 @ 210°F (98°C)	1.05%	1.0%	0.98%	0.95%	0.90%	0.86%	0.64%	0.60%
Flash Point, ASTM D-93	530°F (276°C)	530°F (276°C)	530°F (276°C)	530°F (276°C)	530°F (276°C)	530°F (276°C)	530°F (276°C)	530°F (276°C)
Fire Point, ASTM, D-92	>600°F (>315°C)	>600°F (>315°C)	>600°F (>315°C)	>600°F (>315°C)	>600°F (>315°C)	>600°F (>315°C)	>600°F (>315°C)	>600°F (>315°C)
Pour Point, ASTM D-97	-15°F (-26°C)	-14°F (-25°C)	-12°F (-24°C)	-11°F (-27°C)	-8°F (-22°C)	0°F (-24°C)	1°F (-18°C)	7°F (-12°C)
Rust Preventive Test, ASTM D-3603 @ 140°F (60°C)	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Foam Test	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
D1401 Demulsibility @ 180°F (82°C)	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Shelf Life (unopened container)	Two Years	Two Years	Two Years	Two Years	Two Years	Two Years	Two Years	Two Years



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