



PRINT



SAVE AS PDF

INDUSTRIAL GEAR OILS

INDUSTRIAL LUBRICANTS AND GREASES

EVOLUTIONARY PERFORMANCE™

OEMs continue to evolve equipment designs and operating conditions are becoming more severe. Today's Industrial Gear Oils need to build barriers and lower friction even at higher power densities in gearboxes that are getting smaller in size, while maintaining or growing output and performance. One brand has evolved right alongside today's equipment – MAG 1®. Only the most advanced driveline gear oils meet the difficult challenges of effectively balancing performance, strength and durability.

OUTSTANDING PROTECTION

MAG 1® Industrial Gear Oils are engineered for use in systems that require industrial gear lubricants with excellent protection technology to handle increasing power density and risk of micropitting, extend drain interval and reduce operating and manpower costs. Our Industrial Gear Oils are designed to provide outstanding performance.

Recommended for lubrication of spur, helical, bevel, and worm gear configurations subject to heavy or shock loading in industrial equipment. Performs well at high temperatures and in the presence of water, which can often affect normal operations.

These gear oils help:

- Build a barrier.
- Lower friction.
- Reduce wear.
- Control costs.

POWERFUL ANTI-FRICTION, ANTI-WEAR CHEMISTRY

MAG 1® provides outstanding control of friction and wear. Advanced molecules bond together to create a wear-resistant shield that works to build barriers that reduce friction and wear.

WITHSTANDS THE MOST EXTREME CONDITIONS

MAG 1® Gear Oils provide unsurpassed protection even in the harshest conditions of hot and cold climates, pressure, power density, micropitting or oxidation, shrinking sump sizes or separation of air and water.

MAG 1 Industrial Gear Oils are specially engineered and formulated to provide:

PERFORMANCE

Build barriers and lower friction.

STRENGTH

Outstanding wear protection.

DURABILITY

Long oil life and equipment protection.

TYPICAL PROPERTIES

Viscosity Grade		EP 68 Gear	EP 150 Gear	EP 220 Gear	EP 320 Gear	EP 460 Gear	EP 680 Gear
Color	ASTM D1500	0.5	7	7.5	7.5	4	7.5
Gravity, °API	ASTM D287	30.60	28.84	27.83	27.06	26.46	27.45
Phosphorus, wt. %	ASTM D5185	0.013	0.013	0.013	0.013	0.013	0.013

Pour Point °C (°F)	ASTM D5950	-30°C (-22°F)	-27°C (-17°F)	-24°C (-11°F)	-15°C (5°F)	-15°C (5°F)	-15°C (5°F)
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8729	0.8825	0.8881	0.8924	0.8958	0.8902
Sulfur, wt. %	ASTM D4951	0.336	0.336	0.336	0.336	0.336	0.336
Viscosity @ 100°C cSt	ASTM D445	8.87	15.31	19.88	25.53	32.01	50.37
Viscosity @ 40°C cSt	ASTM D445	67.23	145.7	217.9	325.3	463.6	684.8
Viscosity Index	ASTM D2270	105	107	105	102	100	128

INDUSTRY/OEM APPROVALS

Title	EP 68 Gear	EP 150 Gear	EP 220 Gear	EP 320 Gear	EP 460 Gear	EP 680 Gear
AGMA 9005 D-94, 250.04, 251.02	Suitable for Use	Suitable for Use	Suitable for Use	Suitable for Use	Suitable for Use	Suitable for Use
API GL-2	Suitable for Use	Suitable for Use	Suitable for Use	Suitable for Use	Suitable for Use	Suitable for Use
Cincinnati Machine/Milacron	Suitable for Use	Suitable for Use	Suitable for Use	Suitable for Use	Suitable for Use	Suitable for Use
ISO 12925-1 type CKC	Meets Requirements	Meets Requirements	Meets Requirements	Meets Requirements	Meets Requirements	Meets Requirements
U.S. Steel 224	Suitable for Use	Suitable for Use	Suitable for Use	Suitable for Use	Suitable for Use	Suitable for Use

Information accurate as of June 6, 2020