



MAG1

Evolutionary Performance™

**VEHICLE
MAINTENANCE FLUID**



Evolutionary Performance™

FMX® TECHNOLOGY **FRICTION MANAGEMENT FOR XTREME PROTECTION**

BRAKE FLUID



MAG 1® DOT 3 BRAKE FLUID

Specially blended formula that meets or exceeds the highest standards of performance and safety for a DOT 3 fluid. For all disc and drum brake systems, including ABS, in which a DOT 3 fluid is recommended. Complies with Federal Motor Vehicle Safety Standard 116. Surpasses SAE Spec. J1703. Minimum Wet Boiling Point 284°F (140°C).

MAG 1 DOT 4 BRAKE FLUID

Specially blended formula that provides the ultimate in hi-temp protection, moisture resistance and lubricity for all disc and drum Brake systems in which a DOT 4 or DOT 3 fluid is recommended. Complies with Federal Motor Vehicle Safety Standard 116. Surpasses SAE Spec. J1703. Minimum Wet Boiling Point 311°F (155°C).

PACK SIZES

	Pack Size	Product #
DOT 3	12/12 Ounces	00122
	6/1 Quart	00120
	3/1 Gallon	00121
	5 Gallon	00125
	55 Gallon	00128
DOT 4	12/12 Ounces	00126
	6/1 Quart	00130
	3/1 Gallon	62205
	55 Gallon	00131

TYPICAL PHYSICAL PROPERTIES

Properties	DOT 3	DOT 4
Chemical Stability, °C change, max.	1°C (2°F)	-1°C (-2°F)
Compatibility: Sedimentation at 60°C, vol. % max.	<0.00	<0.00
Corrosion weight change, mg/cm2, max. Aluminum	0.01	0.02
Corrosion weight change, mg/cm2, max. Brass	0.02	0.01
Corrosion weight change, mg/cm2, max. Cast Iron	0.01	0.01
Corrosion weight change, mg/cm2, max. Copper	0.02	0.02
Corrosion weight change, mg/cm2, max. Steel	0.01	0.00
Corrosion weight change, mg/cm2, max. Tinned Iron	0.00	0.00
Effects on rubber cups at 120°C: Base diameter increase, mm	0.22	0.63
Effects on rubber cups at 120°C: Hardness decrease, IRHD, max.	3	4
Effects on rubber cups at 70°C: Base diameter increase, mm	0.15	0.41
Effects on rubber cups at 70°C: Hardness decrease, IRHD, max.	2	3
Equilibrium Reflex Boiling Point, °C (°F) min.	256 (494)	275 (528)
Evaporation at 100°C: Loss in weight, % max.	32.8	31.1
Evaporation at 100°C: Pour point of residue, °C max.	< -5	< -5
High Temp. Stability, °C change, max.	1°C (2°F)	-1°C (-2°F)
Inversion Time at -40°C	6	6
Inversion Time at -50°C	7	6
Kinematic Viscosity, at 100°C, cSt min.	2.0	2.2
Kinematic Viscosity, at -40°C, cSt	936	1016
Resistance to oxidation - Wt. change, mg/cm2, amx. Aluminum	0.00	0.01
Resistance to oxidation - Wt. change, mg/cm2, amx. Cast Iron	0.02	0.01
Water tolerance: Inversion time at -40°C, sec., max.	2	2
Water Tolerance: Sedimentation at 60°C, vol. % max.	0.0	0.0
Wet Equilibrium Reflex Boiling Point, °C (°F) min.	145 (292)	168 (334)



Evolutionary Performance™

COOLING SYSTEM ADDITIVES



MAG 1® RADIATOR ANTI-RUST

Specially blended formula to provide protection for all types of water-cooled engines, including those equipped with aluminum components. Protects against rust and corrosion, and stops annoying squeaks.

Benefits of MAG 1 Anti-Rust and Water Pump Lubricant include:

- Provides outstanding protection to vital engine components.
- Prevents electrolytic or battery-type corrosion.
- Lubrication prevents wear on water pumps, bearings and seals.

MAG 1 RADIATOR FAST FLUSH

Specially blended formula to quickly remove scale, oil and loose rust from the vehicle's entire cooling system. Our product is safe and easy to use.

Benefits of MAG 1 Radiator Fast Flush include:

- Cuts through and removes grease and sludge.
- Removes scale and rust.
- Not harmful to hoses and gaskets.

MAG 1 RADIATOR STOP LEAK

Specially blended formula to quickly stop radiator leaks. Product mixes easily and readily with any coolant. Does not contain any harmful metal.

Benefits of MAG 1 Radiator Stop Leak include:

- Super-fast acting.
- Effectively stops cooling system leaks and antifreeze loss.
- Mixes readily with coolant.

PACK SIZES	Pack Size		Product #
	Radiator Anti-Rust	12/12 Ounces	00330
	Radiator Fast Flush	12/12 Ounces	00331
	Radiator Stop Leak	12/12 Ounces	00332

ENGINE OIL ADDITIVES

FMX TECHNOLOGY **FRICITION MANAGEMENT FOR XTREME PROTECTION**



MAG 1 MOTOR FLUSH

Specially blended formula of solvents and lubricants is designed to remove sludge, gum and varnish that can buildup over time in an engine's crankcase and lubricating oil system. Flushing the crankcase can extend engine life, reduce emissions, improve performance, and free up sticky valves and lifters.

MAG 1 ENGINE STOP LEAK

Valve cover gasket leaks cause 80% of all oil leaks. Our heavy-duty formulation revitalizes gaskets and seals. Chemically engineered to provide maximum performance and engine protection.

Benefits of MAG 1 Engine Stop Leak include:

- Provides a thick cushion of oil to help stop oil burning and excessive smoking.
- Can be used with all types and grades of motor oil, including graphite and synthetic oil.

MAG 1 OIL TREATMENT

Premium formulation includes state-of-the-art additive technology to provide extra protection against viscosity and thermal breakdown. Replenishes vital additives lost to motor oil breakdown.

Benefits of MAG 1 Oil Treatment include:

- Combines modern polymeric viscosity modifiers, lubricating oil and additives to reduce friction.
- Prevents engine wear and fights corrosion and sludge buildup.

PACK SIZES	Pack Size		Product #
	Motor Flush	12/12 Ounces	61572
		6/1 Quart	00171
		55 Gallon	00178
Engine Stop Leak	12/14.5 Ounces	00812	
Oil Treatment	12/14.5 Ounces	00184	



Evolutionary Performance™

FMX® TECHNOLOGY **FRICTION MANAGEMENT FOR XTREME PROTECTION**

GASOLINE FUEL ADDITIVES



MAG 1® Gasoline Fuel Additives featuring FMX® technology provide unsurpassed protection and help improve your engine's performance.

MAG 1 GAS TREATMENT

Specially blended formula to remove water from the gas tank and clean performance robbing dirt, gum, and varnish from fuel injectors and carburetors. Also reduces intake valve and combustion chamber deposits. Used regularly, it can fight fuel system freeze up and corrosion, save gas for improved fuel economy, and can help improve power and acceleration.

MAG 1 OCTANE BOOST

Specially blended formula to economically increase fuel octane level. Used regularly, it can boost power and acceleration, reduce annoying engine knock, ping, and run on, and smooths rough idle.

MAG 1 LEAD SUBSTITUTE

A lead-free formulation replaces lead protection for older engines designed to use leaded gasoline, which can help prevent excessive valve seat wear and extend engine life. For use in automotive, farm and marine engines. If used with each fill up, it can help maintain power and acceleration and help reduce exhaust emissions.

MAG 1 COMPLETE FUEL SYSTEM CLEANER

Specially blended formula to reduce friction and save gas. Specially formulated to improve the quality of gasoline by adding advanced technology cleaning agents to help fight the buildup of harmful carbon, gum and varnish deposits in the fuel system that reduce performance.

MAG 1 CARBURETOR AND FUEL INJECTOR CLEANER

Specially formulated to help prevent buildup of performance-reducing deposits such as dirt, gum, and varnish from fuel injectors and carburetors. Also aids in removing water from gas tank. Used regularly, it can smooth rough idle and ease hard starting, fight power loss and reduce exhaust emissions, and protect against fuel system rust and corrosion.

MAG 1 SUPER CONCENTRATED FUEL INJECTOR CLEANER

Specially blended formula to help prevent build-up of performance-reducing deposits such as dirt, gum, and varnish from fuel injectors and carburetors. Also aids in removing water from gas tank. Used regularly, it can smooth rough idle and ease hard starting, fight power loss and reduce exhaust emissions, and protect against fuel system rust and corrosion.

COMPLETE FUEL SYSTEM MAINTENANCE

★ Good	★★ Excellent	★★★ Superior	Lead Substitute*	Octane Boost	Gas Treatment	Carburetor & Fuel Injection Cleaner	Super Conc. Fuel Injection Cleaner**	Complete Fuel System Cleaner
								★★★
								★★★
						★	★★	★★★
						★	★	★★★
					★	★	★★	★★★
					★	★	★	★★★
				★	★	★	★	★★★
				★	★	★	★	★
				★				
				★				
			★					

* MAG 1 Lead Substitute is designed for older engines that required leaded fuel.

** MAG 1 Concentrated Fuel Injector Cleaner contains twice the Fuel Injector Cleaning agents as MAG 1 Carburetor and Fuel Injector Cleaner.

PACK SIZES

	Pack Size	Product #
Gas Treatment	12/12 Ounces	00152
Octane Boost	12/12 Ounces	00157
Lead Substitute	12/12 Ounces	00162
Complete Fuel System Cleaner	12/16 Ounces	61712
Carburetor and Fuel Injector Cleaner	12/12 Ounces	00142
Super Concentrated Fuel Injector Cleaner	12/12 Ounces	00147



Evolutionary Performance™

FMX TECHNOLOGY **FRICTION MANAGEMENT FOR XTREME PROTECTION**

POWER STEERING FLUID



MAG 1® Power Steering Fluids, featuring FMX® technology, keep your power steering systems operating at peak performance. Benefits include:

- Helps prevent wear and corrosion
- Helps quiet annoying squeals and squeaks
- Smooths and eases steering operation
- Helps prevent slippage

PACK SIZES	Power Steering Fluid	
	Pack Size	Product #
Power Steering Fluid	12/12 Ounces	00813
	6/1 Quart	00810
	3/1 Gallon	00816
PSF with Stop Leak	12/12 Ounces	00172
	6/1 Quart	00809
	12/12 Ounces	60211
OEM PSF	6/1 Quart	62661
	3/1 Gallon	62663

MAG 1 POWER STEERING FLUID

MAG 1 Power Steering Fluid is recommended for reservoir top off, but not complete refill. Benefits of MAG 1 Power Steering Fluid include:

MAG 1 OEM POWER STEERING FLUID

MAG 1 Power Steering Fluid is a specially blended formula that meets or exceeds GM 9985010, Ford M2C195-A, Chrysler MS-5931 and Honda® OEM needs. Recommended for complete fluid refill or top off.

MAG 1 POWER STEERING FLUID WITH STOP LEAK

MAG 1 Premium Power Steering Fluid with Stop Leak Additive is specifically formulated to stop leaks by softening and conditioning hardened seals and gaskets. Seals and gaskets in older vehicles dry out, harden and shrink causing system leaks.

CLAIMS	Power Steering Fluid		Power Steering Fluid	
	Power Steering Fluid	OEM PSF	Power Steering Fluid	OEM PSF
Acura/Honda P/N 08206-9002 PE		○	GM P/N 89021184	○
ASTM D6158	●		Hyundai PSF-3	○
Audi P/N G002000		○	JCMAS HK	○
Bosch Rexroth	○		Kia PSF-3	○
Chrysler MS 1872		○	Mercedes Benz 236.3 P/N 000 989 8803	○
Chrysler MS 5931F, P/N 04883077		○	Mitsubishi Diamond SP III	○
Chrysler MS 9602, ATF+4		○	Mitsubishi PS Fluid	○
Cincinnati/MAG IAS P-68	○		Nissan PSF-II	○
DIN 51524, Part 1,2,3	○		Parker Denison HF-0, HF-1	○
Eaton E-FDGN-TB002-E, 35VQ25A	●		Parker Denison HF-2	○
Ford M2C128-C and D		○	Pentosin CHF 7.1	○
Ford M2C138-CJ		○	Racine	○
Ford M2C33-F		○	Saab P/N (45) 30 09 800	○
General Motors LS-2	○		Sperry Vickers/Eaton I-286-S, M-2950-S	○
GM 9985010 Saginaw Power Steering System		○	Subaru P/N K0209A0080	○
GM 9985835 Wide Temperature Performance (Synthetic Multi-Temperature)		○	Toyota PSF type EH, P/N 008886-01	○
			U.S. Steel 127, 136	○
			VW P/N G002000	○

● = Meets Requirements ○ = Suitable for Use

TYPICAL PHYSICAL PROPERTIES

Properties	Test Method	Power Steering Fluid	PSF with Stop Leak	OEM PSF
Brookfield Viscosity at -40 °C, cP	ASTM D2983	-	-	32,800
Calcium, wt. %	ASTM D5185	0.003	-	-
Color	ASTM D1500	0.5	1	0.5
Gravity, °API	ASTM D287	32.44	32.46	33.07
Phosphorus, wt. %	ASTM D5185	0.033	0.024	0.031
Pour Point °C (°F)	ASTM D5950	-39°C (-38°F)	-30°C (-22°F)	-45°C (-49°F)
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8631	0.863	0.8598
Sulfur, wt. %	ASTM D4951	0.065	0.050	0.016
Viscosity @ 100°C cSt	ASTM D445	5.55	5.561	7.36
Viscosity @ 40°C cSt	ASTM D445	32.11	32.56	36.64
Viscosity Index	ASTM D2270	110	108	172
Zinc, wt. %	ASTM D5185	0.041	0.03	0.007



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FMX TECHNOLOGY **FRICTION MANAGEMENT FOR XTREME PROTECTION**

AEROSOLS / CHEMICALS



MAG 1® ELECTRIC MOTOR CLEANER

Specially blended formula that quickly dissolves and removes the toughest grease, dirt, oil and wax buildups that may cause electrical failure. Cleans sensitive electrical contacts on various ignition components. Loosens and cleans brush dust.

- Excellent cleaning power and speed.
- Evaporates quickly and completely.
- Leaves no messy residue.

MAG 1 BELT DRESSING

Specially blended formula that was created to prolong belt life by preventing drying and cracking. Also, it can help stop belt slippage and annoying squeaks and squeals. Suitable for use on any belt-driven equipment.

- Excellent tackiness and belt conditioning properties.

MAG 1 TIRE INFLATOR

A non-flammable formula to seal and inflate flat tires in seconds. Provides a temporary repair so the driver is not stranded out on the road. Convenient and easy to use; it seals most punctures. Use MAG 1 Fill 'n' Seal, and then drive to a service station or repair shop for help.

MAG 1 ENGINE DEGREASER

Specially formulated to quickly and effectively remove the toughest oily and greasy dirt from engines, transmissions and motors. Superior cleaning power eases many tough cleaning tasks.

- High-power spray for quick coverage and cleaning.
- Cleans multiple applications.
- Safe to use on most plastics.

MAG 1 AIR INTAKE / THROTTLE BODY CLEANER

Specially blended formula to remove harmful and performance-robbing grease, grime, gums, and baked-on varnish. Helps remove loose carbon deposits. Improves the performance of fuel-injected engines.

- Meets U.S. V.O.C. Regulations.
- Safe for all component surfaces.
- 360°-angle nozzle sprays in any position.

MAG 1 PENETRATING OIL

Specially formulated blend of powerful solvents that quickly displaces water and penetrates rust to ease disassembly of frozen parts. Use on nuts, bolts and other metal-to-metal joints and fittings.

MAG 1 CHLORINATED BRAKE CLEANER

MAG 1 Premium Chlorinated Brake Cleaner removes brake fluid, grease, oil and other contaminants from brake linings and drums. It also stops disc brake squeal. It can be applied without disassembling the brake unit. Tests conducted by an independent research laboratory show that the proper use of MAG 1 Premium Brake Parts Cleaner can help improve brake performance. Cleans and degreases brake linings, cylinders, drums, clutches, springs, disc brake parts, C.V. joints and other related brake parts.

- High-powered spray for fast cleaning.
- Dries quickly and completely.

MAG 1 NON-CHLORINATED BRAKE CLEANER

MAG 1 Premium Non-Chlorinated Brake Parts Cleaner is specially formulated to quickly dissolve and remove brake fluid, oil, grease, and other contaminants from brake linings, drums and other brake parts. Cuts job time by evaporating quickly. Won't contaminate recyclable fluids. Can be used without disassembling the brake unit.

- High-powered spray for fast cleaning.
- Dries quickly and completely.
- Non-chlorinated, non-carcinogenic, non-ozone depleting.

MAG 1 GLASS CLEANER

Specially blended formula with ammonia and other active cleaning agents to cut through the toughest grease and grime. Safely and effectively cleans a wide variety of non-porous surfaces.

- Contains maximum amount of solvents allowed by V.O.C. Regulations.
- Easily cuts tough grease.
- Leaves a streak-free shine.

MAG 1 RUBBERIZED UNDERCOATING

This premium-quality undercoating is specially formulated to provide a tough, professional-grade protective shield that will remain elastic and won't crack.

- Formulated with highest concentration of rubber.
- Provides excellent rust and corrosion protection.
- Heavy coating for sound deadening.
- Seals to prevent moisture collection.

MAG 1 SILICONE SPRAY

This specially blended formula provides outstanding lubricating and waterproofing for superior protection against wear. Displaces moisture and leaves behind a protective film. Higher-viscosity formula compared to MAG 1 Super Penetrating Oil.

- Quiets annoying squeaks.
- Repels water and waterproofs.
- Stops freezing of car doors, locks, trunk lids.
- Safe to use on metal, glass, rubber or plastic.

MAG 1 WHITE LITHIUM GREASE

Specially blended formula to deliver superior protection against wear, rust and corrosion. Stops sticking and quiets irritating squeaks. For use on many automotive, household, marine or shop applications.

- Contains a high level of white grease as compared to any other product on the market.
- Does not evaporate.
- Wide angle to cover larger spray surface.
- Immobile oil for greater protection.

PACK SIZES	PACK SIZE		PRODUCT #
	Product	Pack Size	
Electric Motor	12/14.5 Ounces	00445	
Belt Dressing	12/8 Ounces	00446	
Engine Degreaser	12/16 Ounces	00415	
Air Intake / Throttle Body Cleaner	12/12 Ounces	00417	
Chlorinated Brake Cleaner	12/19 Ounces	00408	
Non-Chlorinated Brake Cleaner	12/14 Ounces	00579	
Glass Cleaner	12/18 Ounces	00419	
Tire Inflator	6/12 Ounces	67815	
	6/16 Ounces	67513	
Rubberized Undercoating	12/16 Ounces	00432	
Silicone Spray	12/10.5 Ounces	00440	
White Lithium Grease	12/12 Ounces	00448	
Penetrating Oil	12/16 Ounces	00443	



Evolutionary Performance™

MAG 1® motor oils, lubricants and chemicals are designed to keep pace with today's engine demands, requiring lighter viscosities and increased power densities. It's the only brand with FMX® Technology System, which meets the difficult challenges of effectively balancing performance, strength and durability.

THE MEANING OF EVOLUTIONARY PERFORMANCE™

Today's engines, machinery and equipment are evolving rapidly as OEMs push for more power density, lighter viscosity oil and increased fuel or fluid efficiency. MAG 1 is leading the way in this new evolution, based on the science of advanced additives and powerful molecular structures. It's all part of our exclusive FMX Technology System that boosts performance on many levels under the most severe operating conditions.

It means, despite lower viscosities, MAG 1 still delivers extraordinary performance, strength and durability, in every grade. Even the thinnest MAG 1 oils and fluids perform better than thicker oils of the past.

MAG 1 engine oils and lubricants are chemically formulated to deliver a higher level of performance that rises to the challenge of ever-increasing demands and developments by automotive, heavy duty truck and industrial equipment manufacturers.



PERFORMANCE

MAG 1 delivers unsurpassed protection to control friction and wear well beyond standard industry requirements. It can also help extend engine life and improve the performance of all types of vehicles, trucks, machinery, and equipment.



STRENGTH

MAG 1 is bolstered by FMX Technology, which provides a very strong oil film that shields engines, parts and machinery at multiple points of contact and fights friction between rotating parts.



DURABILITY

MAG 1 protects as well on the last day as it does on the first. Even under the most extreme operating conditions, it retains viscosity and withstands heat and shearing.



EXTREME CONDITIONS

With a powerful, molecular-reinforced formulation, MAG 1 reduces engine and equipment stresses from high heat, cold starts, heavy loads, steep inclines, dusty roads, power density, and more.

WELL-EARNED REPUTATION

MAG 1 is the brand to trust no matter what kind of vehicle you drive or equipment you operate. Manufactured in the U.S.A. by one of the world's leading suppliers of lubricants and automotive chemicals, its solid reputation and record of performance over many years is a testament to the consistent, dependable quality of every MAG 1 product.



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