

## Dirt Bikes



SYNTHETIC  
4-STROKE OIL

SYNTHETIC  
2-STROKE OIL

ACCESSORY  
PRODUCTS



Christian  
Craig  
GEICO/  
AMSOIL/  
Honda



Contact your local full-service AMSOIL Dealer for more information on AMSOIL products or to place an order. You may also order direct by calling AMSOIL INC. at 1-800-956-5695 and providing the referral number listed here. ▼

Referral # 779

Vaughn Enterprises, Inc.  
Call Greg Vaughn at 1-800-581-5823  
3508 W. Pine Street,  
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It takes confidence to grab the holeshot during a race or get out in front of the pack on the trail – confidence that your bike will respond the way you want and confidence that you can push it to the limit without fear of breakdowns. AMSOIL synthetic lubricants are durable and reliable. They are designed to maximize the performance of both bike and rider.

### Four-Stroke

**AMSOIL Synthetic Dirt Bike Oil** is formulated with superior friction-durability properties to deliver consistent clutch feel and long clutch life. Hours of testing in AMSOIL chemical and mechanical labs resulted in a lubricant engineered to maximize your bike's performance. Testing with professional teams in Monster Energy Supercross, AMSOIL Arenacross and AMSOIL GNCC helped further fine-tune AMSOIL Synthetic Dirt Bike Oil for outstanding wear protection and consistent clutch feel. AMSOIL Synthetic Dirt Bike Oil delivers the confidence and performance you need to get on it and get out front.

- **Delivers** confidence in clutch feel
- **Superior** protection against gear wear
- **Outstanding** shear stability for long-lasting performance

### Two-Stroke

**AMSOIL DOMINATOR® Synthetic 2-Stroke Racing Oil** is purpose-built for outstanding film strength and lubricity. It is engineered with carefully selected, higher-viscosity synthetic base oils to withstand the high heat and pressure common to high-performance and racing applications. DOMINATOR's anti-friction chemistry is race-proven to provide an extra measure of protection against piston scuffing and bearing wear.

- **Outstanding** piston and bearing protection
- **Maximizes** power

### Transmission Fluid

**AMSOIL Synthetic Dirt Bike Transmission Fluid** features a wet-clutch-compatible formulation designed for riders who prefer a dedicated transmission fluid instead of a multi-purpose motor oil.

- **Confident** clutch feel
- **Protects** gears





Jeremy Martin  
GEICO/AMSOIL/Honda



## AMSOIL Fuel Additives

### AMSOIL Quickshot®

Degraded fuel presents major problems for dirt bike engines. It can form varnish, gum and insoluble debris that clog carburetors, fuel injectors and fuel filters. Carbon buildup can form on the tops of pistons, causing pre-ignition, rough idling and poor throttle response. AMSOIL Quickshot is formulated to thoroughly clean and restore peak performance in dirt-bike fuel systems. Its revolutionary technology focuses on three major fuel-related issues plaguing these applications: ethanol, water and dirty pump gas.

- **Fights** ethanol-related problems
- **Cleans** varnish, gum and insoluble debris
- **Stabilizes** fuel between uses & during short-term storage



### AMSOIL Motorcycle Octane Boost

- **Increases** octane up to 3 numbers
- **Improves** startup performance
- **Designed** to increase power

## AMSOIL Accessory Products

### AMSOIL Suspension Fluid

- **Controls** friction & heat
- **Limits** shock fade and inconsistent dampening
- **Light #5:** Quick rebounds under extreme temperatures
- **Medium #10:** More dampening & slower rebounds



### AMSOIL Chain Lube

- **Outstanding** protection against wear and corrosion
- **Helps** extend chain life
- **Does not** attract dirt



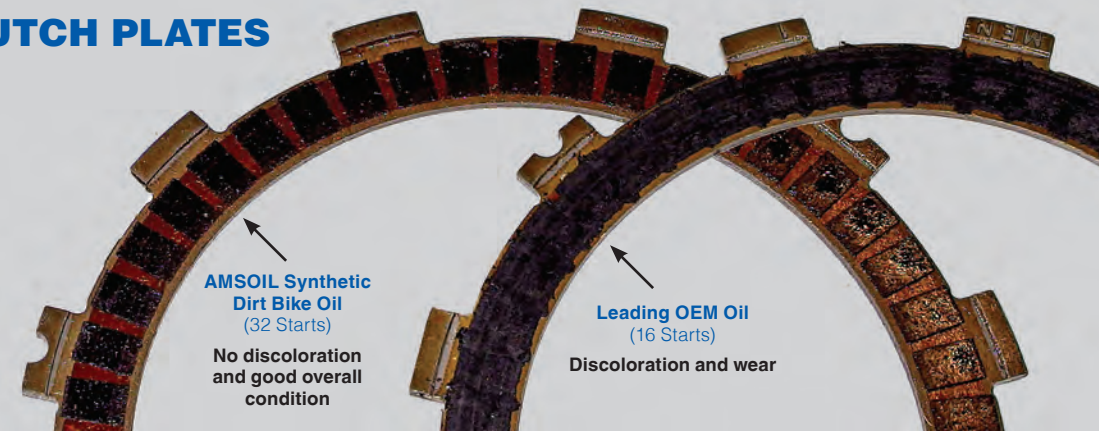
## EXTREME SIMULATED-START TEST

### How Does AMSOIL Synthetic Dirt Bike Oil Stand Up?

In an extreme simulated-start test, AMSOIL Synthetic Dirt Bike Oil continued to deliver consistent clutch feel following 32 simulated race starts, while a leading original equipment manufacturer (OEM)-branded oil demonstrated inconsistent clutch-lever action and poor clutch feel after 16 starts. The clutch plates lubricated with AMSOIL Synthetic Dirt Bike Oil remained clean and in good overall condition, while the plates using the OEM oil revealed discoloration and wear. AMSOIL Synthetic Dirt Bike Oil's superior performance delivers the confidence that your bike will perform consistently in all types of riding conditions.



## CLUTCH PLATES



AMSOIL Synthetic  
Dirt Bike Oil  
(32 Starts)

No discoloration  
and good overall  
condition

Leading OEM Oil  
(16 Starts)

Discoloration and wear



The First in Synthetics®

## Synthetic Dirt Bike Oil

### Designed to Improve the Performance of Bike and Rider

AMSOIL Synthetic Dirt Bike Oil is engineered to deliver the performance attributes most requested by on- and off-track dirt bike riders, including consistent clutch feel. Consistent clutch feel is the result of “friction durability,” so whether deep into a race or deep in the woods, riders can feel confident their clutch will perform from start to finish. AMSOIL-exclusive advanced chemistry provides outstanding engine reliability for worry-free operation under severe conditions.

AMSOIL INC., the premier manufacturer of synthetic motorcycle lubricants, focuses on improving lubricant performance so riders can focus on improving their performance on the trail or the track. That’s why AMSOIL is the choice of professional riders and weekend warriors everywhere.



#### Delivers Confidence in Clutch Feel

AMSOIL Synthetic Dirt Bike Oil’s superior friction-durability properties help minimize clutch slippage, fade and chatter, giving riders consistent clutch feel during takeoffs or when maneuvering around obstacles on the trail. In an extreme simulated-start test, AMSOIL Synthetic Dirt Bike Oil continued to deliver consistent clutch feel following 32 simulated race starts, while a leading original equipment manufacturer (OEM)-branded oil demonstrated inconsistent clutch-lever action and poor clutch feel after 16 starts. The clutch plates lubricated with AMSOIL Synthetic Dirt Bike Oil remained clean and in good overall condition, while the plates using the OEM oil revealed discoloration and wear. AMSOIL Synthetic Dirt Bike Oil’s superior performance helps instill in riders the confidence that their bikes will perform consistently in all types of riding conditions.

#### Protects Against Wear

AMSOIL Synthetic Dirt Bike Oil withstands high-rpm operation, extreme heat and mechanical shear. Its synthetic base oils naturally resist viscosity loss and provide a protective film against wear to gears, bearings and pistons. Its anti-wear additives provide an extra measure of protection, promoting long component life to help riders get the most out of their bikes.

- **Delivers** confidence in clutch feel
- **Protects** against gear, bearing & piston wear
- **Maximizes** horsepower
- **Helps** extend clutch life

### Extreme Simulated-Start Test Clutch Plates





## TYPICAL TECHNICAL PROPERTIES

### AMSOIL Synthetic Dirt Bike Oil

	DB40	DB50	DB60
Kinematic Viscosity @ 100°C, cSt (ASTM D445).....	14.2	18.1	23.5
Kinematic Viscosity @ 40°C, cSt (ASTM D445).....	93.5	121.9	160.1
Viscosity Index (ASTM D2270).....	156	165	177
Flash Point, °C (°F) (ASTM D92).....	246 (475)	240 (464)	240 (464)
Fire Point, °C (°F) (ASTM D92).....	254 (489)	258 (496)	258 (496)
Pour Point, °C (°F) (ASTM D97).....	-44 (-47)	-38 (-36)	-38 (-36)
NOACK Volatility, % weight loss (g/100g) (ASTM D5800).....	4.0	5.5	4.5
High-Temperature/High-Shear Viscosity @150°C, 1.4 x 10 <sup>6</sup> s <sup>-1</sup> , cP (ASTM D5481).....	4.1	4.9	5.8
Four-Ball Wear Test (ASTM D4192 @ 40 kgf, 150°C, 1800 rpm, 1 hr) scar, mm.....	0.39	0.39	0.39
Foam (ASTM D5182, Sequence I, II & III).....	0/0, 20/0, 0/0	0/0, 20/0, 0/0	0/0, 20/0, 0/0
Total Base Number.....	6.62	6.62	6.62

### RACING IS RESEARCH™

AMSOIL Synthetic Dirt Bike Oil underwent extensive on-track testing in the bikes of professional riders. A combination of racer feedback and lab testing allowed AMSOIL to fine-tune AMSOIL Synthetic Dirt Bike Oil for outstanding wear protection and consistent clutch feel – benefits riders demand.

### APPLICATIONS

Use **10W-40 Synthetic Dirt Bike Oil** in dirt bikes that require 10W-40 motorcycle oil, including those made by Honda\*, Yamaha\*, Kawasaki\*, Suzuki\* and Husqvarna\*. Recommended for separate-sump applications, including the Honda CRF and many two-stroke dirt bikes. JASO MA; API SG, SJ, SH, SL.

Use **10W-50 Synthetic Dirt Bike Oil** in dirt bikes that require 10W-50 motorcycle oil, including those made by KTM\*, Kawasaki, Yamaha, Suzuki and Husqvarna. JASO MA; API SG, SJ, SH, SL.

Use **10W-60 Synthetic Dirt Bike Oil** in dirt bikes that require 10W-60 motorcycle oil, including those made by KTM and Husqvarna. JASO MA; API SG, SJ, SH, SL.

### SERVICE LIFE

AMSOIL Synthetic Dirt Bike Oil should be changed according to the vehicle manufacturer's recommendations.

### COMPATIBILITY

AMSOIL Synthetic Dirt Bike Oil is compatible with other synthetic and conventional motor oils. Adding other oils, however, will shorten the life expectancy of AMSOIL motor oils and reduce their performance benefits. AMSOIL does not support extended drain intervals where oils have been mixed.

Aftermarket oil additives are not recommended for use with AMSOIL Synthetic Dirt Bike Oil.

### WARRANTY SECURE

AMSOIL Synthetic Dirt Bike Oil is Warranty Secure, keeping your factory warranty intact. AMSOIL Synthetic Dirt Bike Oil is a high-performance replacement for vehicle manufacturer-branded products and is also backed by the AMSOIL Limited Warranty. For details, visit [www.amsoil.com/warrantysecure](http://www.amsoil.com/warrantysecure).



### HEALTH & SAFETY

This product is not expected to cause health concerns when used for the intended applications and according to the recommendations in the Safety Data Sheet (SDS). An SDS is available via the Internet at [www.amsoil.com](http://www.amsoil.com) or upon request at (715) 392-7101. **Keep Out of Reach of Children.** Recycle used oil and bottle.

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## DOMINATOR® Synthetic 2-Stroke Racing Oil

Racers can't win what they don't finish. That's why AMSOIL formulators built DOMINATOR® 2-Stroke Racing Oil. This complex blend of oils and additives directly addresses the heat, pressure and friction of race-engineered engines. These engines operate on the edge, yet engine reliability is critical. DOMINATOR does an outstanding job protecting high-performance engines. It adds durability that professional racing teams depend on and delivers confidence so engines can be pushed to the limit.

### Excellent Lubricity and Film Strength

High-performance and race-designed two-stroke engines operate under severe conditions. They are modified for higher compression ratios, higher rpm and leaner combustion, all of which increase heat and pressure. High heat can quickly burn off light oils and cause rapid piston expansion, decreasing piston-to-cylinder wall clearances and increasing the likelihood of piston scuffing and seizure. High pressure can exceed the film strength of low-viscosity oils, which promotes crankshaft bearing wear and pitting.

DOMINATOR is purpose-built for outstanding film strength and lubricity. It is engineered with carefully selected, higher-viscosity synthetic base oils to withstand the high heat and pressure common to high-performance and racing applications. DOMINATOR's anti-friction chemistry is race-proven to provide an extra measure of protection against piston scuffing and bearing wear.

### Outstanding Cleanliness

The oil and fuel burned in the two-stroke combustion process leave destructive deposits on the pistons, rings and in the combustion chamber. Excessive deposits can lead to catastrophic engine problems, including ring sticking, exhaust port blocking and pre-ignition.

AMSOIL DOMINATOR is formulated with clean-burning synthetic base oils and powerful high-temperature detergent additives for exceptional deposit control. It helps prevent the power-robbing carbon deposits that cause ring sticking, exhaust port blocking and pre-ignition. AMSOIL DOMINATOR is optimized for severe service.



### Race-Proven Benefits

- **Excellent** film strength for high-heat, high-rpm motors
- **Anti-friction** formula for maximum power
- **Burns clean**; helps prevent ring sticking and plug fouling
- **Protects** coated and non-coated racing pistons

## TYPICAL TECHNICAL PROPERTIES

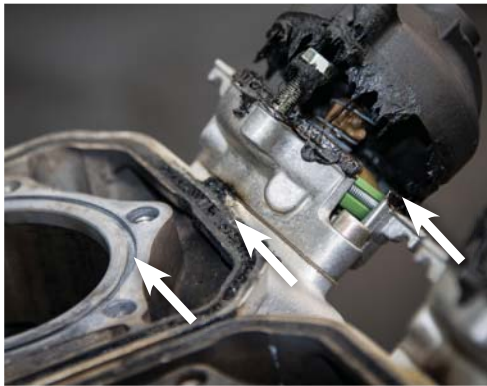
### DOMINATOR® Synthetic 2-Stroke Racing Oil (TDR)

Kinematic Viscosity @ 100°C, cSt (ASTM D445) . . . . . 7.0  
Kinematic Viscosity @ 40°C, cSt (ASTM D445) . . . . . 35.2  
Viscosity Index (ASTM D2270) . . . . . 166

Pour Point °C (°F) (ASTM D97) . . . . . -54 (-65)  
Flash Point °C (°F) (ASTM D92) . . . . . 94 (201)  
Fire Point °C (°F) (ASTM D92) . . . . . 94 (201)

## RACING IS RESEARCH™

During the opening weekend of the 2015/16 AMSOIL Championship Snocross season, professional rider Lincoln Lemieux's Ski-Doo® RS600 suffered a broken hose clamp, allowing the coolant to pump from the system. The intense heat that resulted melted the exhaust power valve covers, O-rings and engine gaskets. DOMINATOR Synthetic 2-Stroke Racing Oil, however, delivered exceptional protection despite the severe conditions. The rings and pistons were still free and the crankshaft turned freely. Scheuring Speed Sports is able to reuse the engine after repairing the melted parts, providing concrete testimony of DOMINATOR's superior performance.



Melted gaskets and exhaust power valve cover



The pistons suffered only minor scuffing.

## APPLICATIONS

Use in high-performance stock or modified two-stroke engines, including air- or liquid-cooled snowmobiles, personal watercraft, motorstrokes (moto X), ATVs, go-carts and outboard motors\*\*. Good for use with coated or non-coated pistons, high-octane racing fuels and exhaust power valves. Compatible with most other two-stroke oils; however, mixing oils should be minimized.

Use in oil-injected and pre-mix applications that require API TC oils. In pre-mix applications, DOMINATOR delivers outstanding protection at 50:1 (2.6 oz. oil per U.S. gallon of gas), although many racers modify the mix ratio to suit their setup. Not suitable for use with alcohol or nitro-methane fuels.

## WARRANTY SECURE®

DOMINATOR Synthetic 2-Stroke Racing Oil is Warranty Secure, keeping your factory warranty intact. DOMINATOR Synthetic 2-Stroke Racing Oil is a high-performance replacement for vehicle manufacturer-branded products and is also backed by the AMSOIL Limited Warranty. For details, visit [www.amsoil.com/warrantysecure](http://www.amsoil.com/warrantysecure).



## HEALTH & SAFETY

This product is not expected to cause health concerns when used for the intended application and according to the recommendations in the Safety Data Sheet (SDS). An SDS is available via the Internet at [www.amsoil.com](http://www.amsoil.com) or upon request at (715) 392-7101. **Keep Out of Reach of Children.** Recycle used oil and bottle.

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\*\*Not suitable for long-term use in outboard motors as a TC-W3-type oil, although excellent as a race oil for short-term use where motors are periodically inspected.



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## Synthetic Dirt Bike Transmission Fluid

### Designed to Improve the Performance of Bike and Rider

Grabbing the holeshot in a race or maneuvering around obstacles on the trail requires a transmission fluid that doesn't slip or grab. AMSOIL Synthetic Dirt Bike Transmission Fluid is specifically formulated to provide consistent clutch feel, delivering riders confidence their clutch will respond the way they want. It also guards against gear and clutch wear so enthusiasts can spend more time riding and less performing maintenance. AMSOIL Synthetic Dirt Bike Transmission Fluid is a cost-effective, high-performance alternative to original equipment manufacturer (OEM) fluids.

AMSOIL INC., the premier manufacturer of synthetic motorcycle lubricants, focuses on improving lubricant performance so riders can focus on improving their performance on the trail or the track. That's why AMSOIL is the Official Oil of AMSOIL GNCC and the choice of professional riders and weekend warriors everywhere.

#### Confidence in Clutch Feel

AMSOIL Synthetic Dirt Bike Transmission Fluid's superior friction-durability helps minimize clutch slippage, providing riders consistent clutch feel during takeoffs or when navigating obstacles on the trail. Its lower viscosity delivers more aggressive clutch feel, while its superior performance helps instill in riders the confidence their bikes will perform consistently in all types of riding conditions.

#### Protects Against Gear & Clutch Wear

The intense environment inside a dirt bike transmission can shear lubricants, leading to viscosity loss. A lubricant that has fallen out of its intended viscosity range can fail to develop a strong fluid film between parts, leading to wear. AMSOIL Synthetic Dirt Bike Transmission Fluid's high-quality synthetic base oils withstand viscosity loss due to shear. It delivers excellent wear protection for gears and clutch plates, helping riders get the most out of their bikes.



- **Delivers** confident clutch feel
- **Protects** against gear and clutch wear



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## TYPICAL TECHNICAL PROPERTIES

### AMSOIL Synthetic Dirt Bike Transmission Fluid (DBTF)

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Kinematic Viscosity @ 100°C, cSt (ASTM D445)	10.3
Kinematic Viscosity @ 40°C, cSt (ASTM D445)	66.5
Viscosity Index (ASTM D2270)	142
Pour Point, °C (°F) (ASTM D97)	-44 (-47)
Flash Point, °C (°F) (ASTM D92)	248 (478)
Fire Point, °C (°F) (ASTM D92)	266 (511)
Four-Ball Wear Test (ASTM D4172)	
Para 1 (75°C, 1200 rpm, 40 kg, 1 hr)	0.35
Para 3 (150°C, 1800 rpm, 40 kg, 1 hr)	0.41

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#### APPLICATIONS

Use in two- and four-stroke dirt bikes that use a separate sump, including those made by Honda\*, Yamaha\*, Kawasaki\*, Suzuki\*, Husqvarna\* and KTM\*.

#### RECOMMENDATIONS

Change AMSOIL Synthetic Dirt Bike Transmission Fluid according to the vehicle manufacturer's recommendations.

#### HEALTH & SAFETY

This product is not expected to cause health concerns when used for the intended application and according to the recommendations in the Safety Data Sheet (SDS). An SDS is available via the Internet at [www.amsoil.com](http://www.amsoil.com) or upon request at (715) 392-7101. **Keep Out of Reach of Children.** Recycle used oil and bottle.

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## Shock Therapy® Suspension Fluid

Formulated for Fade-Free Dampening  
and Smooth Rebounds in High-  
Performance Applications

A properly functioning suspension is vital to performance during a race or maneuvering around obstacles on the trail. For greatest effectiveness, riders need consistent suspension feel over a broad temperature range. Aggressive riding, however, can heat suspension fluid enough to cause viscosity loss, resulting in soft, inconsistent feel. AMSOIL Shock Therapy Suspension Fluid resists viscosity loss over a broad temperature range for consistent, effective suspension feel. It reduces foaming, aeration and wear, while conditioning seals for maximum life.

### Controlled Dampening and Rebound

AMSOIL Shock Therapy Suspension Fluid is formulated to make suspension systems more predictable. Its base oils have inherently high viscosity indices that effectively maintain viscosity, while its anti-foam agents reduce aeration and foam.

### Reduces Friction and Wear

The constant friction within a shock body decreases suspension performance. AMSOIL Shock Therapy Suspension Fluid contains friction modifiers to reduce the energy loss caused by friction, while anti-wear agents protect shocks and forks from premature wear.



- **High viscosity index** helps prevent fade under extreme temperatures
- **Consistent, smooth** dampening
- **Seal conditioners** for extended service life
- **Race-grade** technology

## TYPICAL TECHNICAL PROPERTIES

### Shock Therapy® Suspension Fluid

	#5 Light (STL)	#10 Medium (STM)
Viscosity @ 100°C, cSt (ASTM D445)	4.4	7.3
Viscosity @ 40°C, cSt (ASTM D445)	15.9	31.8
Viscosity Index (ASTM D2270)	209	206
Flash Point, °C (°F) (ASTM D92)	174 (345)	192 (378)
Fire Point, °C (°F) (ASTM D92)	192 (378)	208 (406)
Pour Point, °C (°F) (ASTM D97)	-53 (-63)	-48 (-54)
Four-Ball Wear @ 40 kgf, 75°C, 1200 rpm, 1 hr, scar diameter, mm (ASTM D4172)	0.44	0.42
Foam, ml (ASTM D892) Sequence I, II, III	50/0, 40/0, 50/0	60/0, 50/0, 60/0

### Use Shock Therapy Light #5 and Medium #10 in applications that specify any of the following:

- Denison\* HF-0, HF-1, HF-2
- Racine\* Variable Vane Pump
- Lee Norse\* 100-1
- DIN 51524 Part 2
- Ford\* M6C-32
- Afnor\* E 48-603
- BF Goodrich\* 0152 (except PM 500 Series)

### Recommendations

Use AMSOIL Shock Therapy Suspension Fluid in front forks and shocks on snowmobiles, dirt bikes, motorcycles, ATVs and other racing and recreational-use vehicles, as well as cars and trucks that require suspension systems that perform in the most extreme conditions. Agitate the fluid before use. Shock Therapy Suspension Fluid Light #5 is the preferred choice for winter use.

Use **AMSOIL Shock Therapy Suspension Fluid Light #5** in suspension systems and forks where less dampening and quicker rebounds are desired, including those made by Showa,\* Kayaba,\* Bilstein,\* RydeFX,\* Penske,\* WP,\* RACETECH,\* (US1) and Custom Axis.\*

Use **AMSOIL Shock Therapy Suspension Fluid Medium #10** in suspension systems where more dampening control and slower rebounds are desired, including those made by Ohlin,\* FOX,\* RACETECH (US2), Koni\* and WP shocks; and Harley-Davidson\* forks that recommend type "E" or "B" fork oil.

To cross-reference against your current product visit [amsoil.com/shockfluidcrossreference](http://amsoil.com/shockfluidcrossreference).

### AMSOIL PRODUCT WARRANTY

AMSOIL products are backed by a Limited Liability Warranty. For complete information visit [www.amsoil.com/warranty.aspx](http://www.amsoil.com/warranty.aspx).

### HEALTH & SAFETY

This product is not expected to cause health concerns when used for the intended application and according to the recommendations in the Safety Data Sheet (SDS). An SDS is available online at [www.amsoil.com](http://www.amsoil.com) or upon request at 715-392-7101. **Keep Out Of Reach Of Children.** Recycle used oil and bottle.

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## Chain Lube

### Outstanding Protection for On- and Off-Road Motorcycle Chains

AMSOIL Chain Lube (ACLSC) is a dedicated aerosol chain lubricant that provides outstanding wear and corrosion protection for all types of chains and sprockets. It penetrates deep into the pins and bushings of chains and leaves a protective coating that will not fling off or attract dirt, dust, sand or grit.

#### Performance Features

- Outstanding protection against wear and corrosion
- Helps extend chain life
- Does not attract dirt
- Does not fling off
- Easy application
- Fast-drying

#### APPLICATIONS

Chain Lube is suitable for all types of chains, including O, X and Z roller chains found in street, off-road and racing motorcycles. It is also excellent for bicycle, agricultural and industrial applications.

#### Directions

Shake well. Clean chain prior to application. Apply a steady stream along the full length of the chain. Allow to dry for 15 minutes.

#### Disposal

Aerosols may have different disposal requirements than other wastes in your area. Dispose of contents and container in accordance with all federal, state/provincial and local regulations.

#### TECHNICAL SERVICES

For immediate answers to your technical questions call (715) 399-TECH (8324) between 8 a.m. and 5 p.m. Central time or email [tech@amsoil.com](mailto:tech@amsoil.com).

#### PRODUCT AVAILABILITY

Chain Lube is available in 11-oz. and 4.5-oz. spray cans.

#### PRODUCT WARRANTY

AMSOIL products are backed by a Limited Liability Warranty. For complete information visit [www.amsoil.com/warranty.aspx](http://www.amsoil.com/warranty.aspx).

#### HEALTH & SAFETY

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## Quickshot®

### Formulated to Restore Peak Performance in Small Engines and Powersports Equipment

Degraded fuel presents a major maintenance issue in small engines and powersports equipment. It can form varnish, gum and insoluble debris that clog carburetors, fuel injectors and fuel filters. Carbon build-up can form on the tops of pistons, causing pre-ignition, rough idling and poor throttle response. Fuel-related problems are only expected to intensify in the coming years as the ethanol content in pump gasoline continues to increase.

AMSOIL Quickshot is a premium fuel additive formulated to thoroughly clean and restore peak performance in small engine and powersports equipment fuel systems. It also stabilizes fuel between uses and during short-term storage. Its revolutionary technology focuses on three major fuel-related issues plaguing these applications: ethanol, water and dirty pump gas.

#### Ethanol

Ethanol in fuel has a tendency to absorb water and separate from the gasoline (a process known as *phase separation*), sinking to the bottom of the gas tank where it quickly degrades and creates gum, varnish and other insoluble debris that can plug fuel-flow passages and negatively affect engine performance. When this ethanol/water mixture is pulled into the engine, it creates a lean-burn situation that increases combustion-chamber temperatures and can lead to engine damage. AMSOIL Quickshot is designed to keep water dispersed throughout the fuel tank, moving it out as a normal part of operation and decreasing the chance of ethanol separating from the gasoline.

Quickshot was tested in fuel containing 10 percent ethanol. Controlled plugging of injectors showed a 70 percent flow improvement, while oxidation stability improved 44 percent over untreated fuel.

#### Water

Water finds its way into gas tanks through condensation in tanks open to the atmosphere, gas pumps and other environmental conditions, and if left untreated, will cause starting, performance and corrosion problems. By keeping water dispersed in tiny molecules and safely moving it out of the tank through the combustion chamber, Quickshot helps maintain engine performance and protects against damaging corrosion.

#### Dirty Gasoline

Dirty gasoline causes fuel-system gumming and varnish, as well as piston and combustion-chamber deposits. Although all gasoline sold in the U.S. is formulated with a lowest additive concentration (LAC) level of detergent additives, these detergent levels are not enough to prevent deposits from building up on critical fuel-system components. Quickshot contains unique chemistry that quickly detaches and carries away deposits and buildups in fuel systems, injectors and carburetors, while also cleaning hard-to-remove deposits on piston tops, spark plugs and other combustion-chamber parts.



- **Cleans** fuel systems
- **Addresses** ethanol-related performance issues
- **Stabilizes** fuel





## Phase Separation



When ethanol/water mixtures fall to the bottom of fuel containers, it leads to lean-burn situations. Quickshot helps keep water molecules dispersed to prevent phase separation.

## APPLICATIONS

Quickshot (AQS) is recommended for use in all two- and four-stroke gasoline-powered engines, including motorcycles, snowmobiles, boats, personal watercraft, ATVs, edgers, tillers, mowers, snowblowers, chainsaws, generators and farm and construction equipment. However, AMSOIL P.i.<sup>®</sup> Performance Improver is the superior choice for passenger vehicle applications.

## RECOMMENDATIONS

Quickshot is designed for an initial clean-up dose of 8 oz. (236-ml) per 6 gallons (23 litres) of gasoline, followed by 8 oz. (236-ml) per 12 gallons (45 litres) thereafter. Slight overtreatment has no negative consequences.



Contact your AMSOIL Dealer for more information on AMSOIL products or to place an order. You may also order direct by calling AMSOIL INC. at 1-800-956-5695 and providing the referral number listed here. ▼

Referral # **779**

**Vaughn Enterprises, Inc.**  
Call Greg Vaughn at **1-800-581-5823**  
3508 W. Pine Street,  
Appleton, Wisconsin, 54914, USA  
Fax: 920-734-5823  
greg@vaughninc.com  
<https://www.Vaughninc.com/>



## Motorcycle Octane Boost

### Maximizes Power and Efficiency

AMSOIL Motorcycle Octane Boost (MOB) increases octane for maximum power and efficiency. It is designed to improve startup performance and eliminate engine ping or knock for increased power at low-rpm operation. Motorcycle Octane Boost contains detergents that help combustion chambers and fuel delivery systems maintain cleanliness for optimum performance. At the recommended treat rate, it does not harm catalytic converters or oxygen sensors and is compatible with all other AMSOIL fuel additives.

### Maximizes Power & Performance

When added to 4-6 gallons of fuel, Motorcycle Octane Boost increases the octane of gasoline up to three numbers. Increased octane improves power and can eliminate performance-robbing and potentially damaging engine knock or ping (see reverse).

### Improves Low-rpm Performance

Engine knock is especially noticeable in some motorcycles during idle or low-rpm operation and high-temperature driving. Most modern bikes are equipped with sophisticated knock-detection systems that can alter spark timing and the air-to-fuel mixture until knock ceases. Although these systems protect the engine from damage, they can also cause reduced horsepower and poor low-rpm operability. AMSOIL Motorcycle Octane Boost helps reduce the need for knock-detection systems to compensate, ensuring maximum low-rpm power and performance in modern bikes.

### Cleans Harmful Deposits

Because Motorcycle Octane Boost contains active detergents, it can help maintain the cleanliness of combustion chambers and fuel delivery systems for improved efficiency. For clean up, however, AMSOIL recommends treating gasoline with AMSOIL Quickshot®, which contains a greater concentration of cleaning agents.





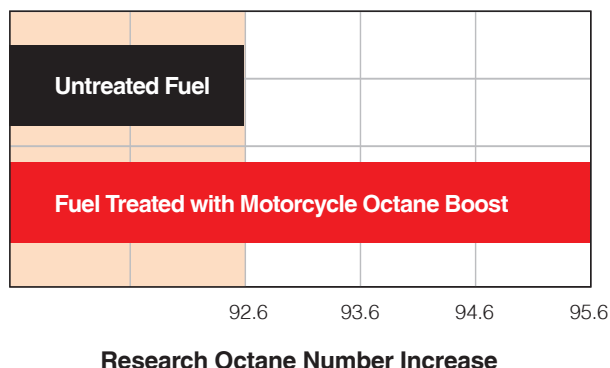
## What is engine knock and why does it matter?

The tendency of a hydrocarbon fuel, such as gasoline, to knock is measured by its octane number. Lower numbers denote a greater knock tendency; higher numbers denote greater knock control. "Engine knock" is a reference to the sound made from an uncontrolled and early ignition of fuel in the combustion chamber. It causes a knocking or pinging sound, robs the engine of power and can cause catastrophic engine damage. Knock may be eliminated by increasing the fuel's octane.

## What is Research Octane Number?

Research Octane Number (RON), Motor Octane Number (MON) and Anti-Knock Index (AKI) are the three most common octane ratings. AKI, the rating with which most North American motorists are familiar, is typically displayed on gas pumps as the average of the fuel's RON and MON  $[(R+M)/2]$ . RON, however, is the most common industry rating. Therefore, AMSOIL uses the RON rating when conducting performance tests and product validation. Gasoline's RON generally is a few numbers higher than the AKI posted on the gas pump (e.g. 87 octane fuel, or regular pump gas, has a RON of about 91-92).

## AMSOIL Motorcycle Octane Boost Increases Research Octane up to 3 Numbers



When marketing their products, some additive manufacturers have adopted a points system where 10 points equals one octane number. A claim that an additive increases octane 30 points translates into an increase of three octane numbers. This approach is often used only to artificially strengthen marketing claims and is not endorsed by AMSOIL.

## Treat Rate

One 4-oz. bottle of AMSOIL Motorcycle Octane Boost treats four to six gallons of gasoline.

## APPLICATIONS

Motorcycle Octane Boost is primarily recommended for use in four-stroke air- or liquid-cooled motorcycles manufactured by Harley-Davidson\*, Yamaha\*, Honda\*, Ducati\*, BMW\*, Triumph\* and all other four-stroke motorcycles. It may be used in off-road applications, including ATVs, UTVs and snowmobiles, as an alternative to AMSOIL DOMINATOR® Octane Boost.

**Note:** Clean spills immediately using a clean towel. If left standing, Motorcycle Octane Boost can stain painted or metal surfaces. If cleaned immediately, there is no need for concern.

## HEALTH & SAFETY

This product is not expected to cause health concerns when used for the intended application and according to the recommendations in the Safety Data Sheet (SDS). An SDS is available via the Internet at [www.amsoil.com](http://www.amsoil.com) or upon request at (715) 392-7101. **Keep Out of Reach of Children.** Don't pollute.

For AMSOIL warranty information, visit [www.amsoil.com/warranty.aspx](http://www.amsoil.com/warranty.aspx).

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AMSOIL products and Dealership information are available from your local AMSOIL Dealer.

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The First in Synthetics®

## Miracle Wash® Waterless Wash & Wax A Showroom Shine Without the Mess of Soap and Water

AMSOIL Miracle Wash® Waterless Wash & Wax (AMW) provides vehicles with a fantastic shine and super-tough protective finish in just two easy steps – spray and wipe. Specialized surfactants lift the dirt off the surface of the vehicle and hold it in suspension while the vehicle is wiped clean. Miracle Wash acts as a protective barrier between the dirt particles and the surface, protecting the finish from abrasion. Specialized anti-static agents repel dust and light dirt, maintaining the vehicle's brilliant shine long after washing is finished. Miracle Wash also protects against the damaging effects of the sun's ultraviolet rays.

### Applications

Miracle Wash is highly effective on virtually all non-porous and painted surfaces:

- Cars • Trucks • RVs • Motorcycles •
- Boats • Countertops • Windows • Mirrors
- Kitchen Appliances • Many More

Test in a small area before using on matte or other porous finishes.

### Directions

1. Remove thick, coated dirt on surface.
2. Shake well.
3. Apply in dry, shaded location onto a 3 sq. ft. area.
4. Wipe immediately with a clean, lint-free cloth.

### Disposal

Aerosols may have different disposal requirements than other wastes in your area. Dispose of contents and container in accordance with all federal, state/provincial and local regulations.

### TECHNICAL SERVICES

For immediate answers to your technical questions call (715) 399-TECH (8324) between 8 a.m. and 5 p.m. Central time or email [tech@amsoil.com](mailto:tech@amsoil.com).

### PRODUCT AVAILABILITY

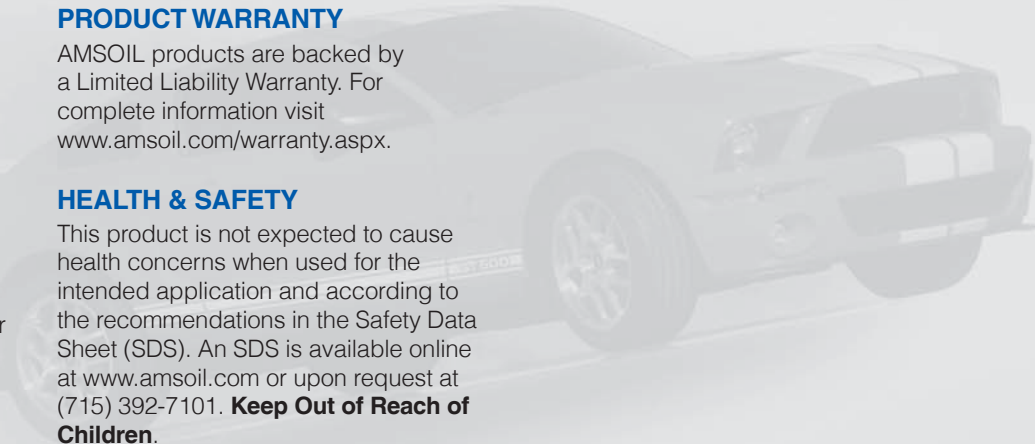
Miracle Wash is available in 13-ounce spray cans. Not available in Canada.

### PRODUCT WARRANTY

AMSOIL products are backed by a Limited Liability Warranty. For complete information visit [www.amsoil.com/warranty.aspx](http://www.amsoil.com/warranty.aspx).

### HEALTH & SAFETY

This product is not expected to cause health concerns when used for the intended application and according to the recommendations in the Safety Data Sheet (SDS). An SDS is available online at [www.amsoil.com](http://www.amsoil.com) or upon request at (715) 392-7101. **Keep Out of Reach of Children.**



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