



BREAKING THE FIELD



2024 PRODUCT CATALOG





Breaking the Mold

When we began STARFIRE, we set out to do something different in the industry. Cater to people who needed a better and faster way to keep moving. By creating a comprehensive line of products that customers need so they have a one-stop shop. By cutting the red tape so they get product where they want, when they want it. By being REAL People, who pick up the phone and understand the everyday challenges of keeping business moving. By breaking the corporate mold that everyone else tries to follow, **BECAUSE WE AREN'T HERE TO BE LIKE EVERYBODY ELSE.**

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ANCILLARY PRODUCTS



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SERVICES

TECHNICAL SUPPORT

Get answers from our team on hard-to-find technical information. Find out which product is best to use for your application. Whether it is special blend lubricants, specialty industrial lubricants or grease.

**Questions? Talk to someone in
our office at 1-888-258-8723
OR ASK US HERE...**



LOGISTICS

We can arrange delivery of STARFIRE products on regional route trucks, nationwide freight carriers and bulk transports. We'll even load your export containers at our warehouse or ship to your freight forwarder of choice. **We ship product the way you expect. Every day.**

FROM QUARTS TO TRUCKLOADS

In addition to the packaging you see in this catalog, STARFIRE products are also available in ECO-BOXES, PAILS, KEGS, DRUMS, TOTES and BULK TANKER transports. We make sure you have the fluids you need, in the volumes you need. Because it just makes sense.





SENTRY FLUID ANALYSIS PROGRAM

We provide kits with advanced diagnostic and preventive maintenance testing designed to evaluate fluid condition, component wear and contamination in engines, hydraulic systems, transmissions, differentials, gear boxes, final drives, turbines and compressors.

- Maximize asset reliability
- Safely extend oil drain intervals
- Extend equipment life
- Minimize downtime by identifying minor problems before they become major failures
- Testing by an independent, ISO 17025 A2LA-accredited laboratory
- Get online results immediately
- Innovative data management tools to assist with daily maintenance

RESULTS via HORIZON®

A web-based data management application. This system allows you to submit sample information electronically and manage your equipment lists from any PC or mobile device.

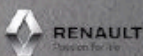
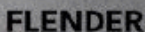
- Keep sampling schedules on track with daily maintenance
- Identify bottlenecks in turnaround time
- Monitor samples submitted online
- View graphs to quickly pinpoint trends
- Add or update equipment information

OUR PRODUCTS



STARFIRE is a company of people committed to offering a complete line of field-tested, OEM-approved products that meet/exceed specifications and expectations. Whether you're moving earth, transporting people, moving cargo, keeping factories running efficiently or getting to soccer practice on time—we have what you need to keep moving. Where other companies might supply oil, or grease, or brake cleaner, FEW can offer ALL of these products under ONE trusted brand. That makes a real difference in availability, ordering flexibility and delivery—with the industry's fastest lead times. When you have a question, we answer the phone or email right away, because that's what you expect. **See for yourself.**

APPROVALS & LICENSING





EX INDUSTRIAL



MASS PRODUCTION

STARFIRE EX is our next level of high-performance industrial lubricants for large-scale industrial applications. Specifically blended to provide the exceptional protection factory machines demand.

Hydraulic Oil

Gear Oil

Compressor Oil

Grease

Specialty Fluids

We make EX to satisfy those demands — and yours— with services and logistics tailored to maximize efficiency and cost. If you depend on industrial lubricants, we can show you how STARFIRE EX is a viable option.



HEAVY DUTY



POWERING THROUGH

STARFIRE Heavy Duty lubricants are formulated with state-of-the-art technology to protect hard-working engines and equipment operating in all service conditions to deal with the grind of everyday working machines.

Keeping fleets and service vehicles on the road takes dependability. Our Heavy Duty products are all designed to meet/exceed OEM specifications and YOUR expectations when it comes to product, service, delivery and pricing.

Engine Oil

Gear Oil

HD Antifreeze/Coolant

EP Grease

Diesel Exhaust Fluid

We are here to help make sure you're still going when the going gets tough.

AGRICULTURE & CONSTRUCTION

MOVING THE EARTH

Whether you're building structures or keeping food on the nation's tables, Our agriculture and construction fluids are designed to keep you digging and moving. Tractor fluids keep machines planting and harvesting, no matter the age of the equipment. Motor oils, gear oils, hydraulic oils and coolants to keep all off-highway/off-road equipment moving, so they can keep moving the earth.

Engine Oil

Hydraulic Oil

Gear Oil

Tractor Hydraulic & Transmission Fluid

HD Antifreeze/Coolant

EP Grease

We'll help keep your production in high gear - like no one else.



AUTOMOTIVE



NICE RIDE

You care about your vehicles. You work on them because you can control quality and cost. Because WE care, our automotive fluids give you reliable OEM quality at prices that make sense. Motor oil, transmission fluid, gear oil, antifreeze/coolant, engine treatments and more—STARFIRE has all the automotive products to make sure your vehicle is running the way you need it.

Motor Oil - Synthetic Blend and Full Synthetic
Transmission Fluid
Gear Lubricants
Antifreeze/Coolants
Grease
Brake Fluid
Power Steering Fluid
Gas Treatment
Aerosol Products
Wiper Fluid

Because THIS ride is yours.



EX INDUSTRIAL

The next level of high-performance lubrication. Industrial lubricants for large-scale industrial applications, specifically blended to protect machinery, increase efficiency, and deliver legendary **STARFIRE** reliability. **CONFIDENCE** in products that protect your hard-working machines, 24/7.



HYEX™

HYDRAULIC OIL

AW
PREMIUM AW
HVI
ZINC FREE AW

R&O
SYNTHETIC R&O
FIRE RESISTANT



Product
Data



TALEX™

GEAR OIL

CONVENTIONAL
EP GEAR OIL

SYNTHETIC
EP GEAR OIL



Product
Data



CIREX™

COMPRESSOR OIL

SYNTHETIC G-III
PAO

DE
PAG



Product
Data



EPEX™

GREASE

MULTI-PURPOSE
HI-TEMP EP 2

3% MOLY EP 2
CS EP 2



Product
Data



SOLEX™

SPECIALTY

WAYLUBES
HEAT TRANSFER OIL
ROCK DRILL
COOLFROST PG HTF
COOLTHERM EG HTF
TRANSFORMER OIL
WHITE OIL



Product
Data





MOTOR OIL

STARFIRE motor and engine oils are engineered to meet or exceed the latest manufacturers' requirements. They are formulated with the highest quality, hydro-treated, paraffinic lubricating oils and a technologically advanced additive system, which includes detergents, dispersants, anti-wear and anti-friction agents, and oxidation and corrosion inhibitors.

SYNTHETIC BLEND

Fully licensed motor oils that meet or exceed the latest manufacturers' requirements for use in passenger car, SUV and light duty truck gasoline engines, powerboats, motorcycles, and other stationary and mobile equipment.

APPLICATIONS

- Licensed API SP and ILSAC GF-6A and covers all preceding specifications.
- STARFIRE 5W-20 can be used when Ford WSS M2C960-A1, M2C945-B1, M2C945-A, M2C930-A, M2C153, Chrysler MS-6395, MS10797, GM 6094M or GM 4718 is specified
- STARFIRE 5W-30 can be used when Ford WSS M2C961-A1, M2C946-B1, M2C946-A, M2C929-A, Chrysler MS-6395, GM 6094M or GM 4718 is specified

BENEFITS

- Superior protection against thermal breakdown and deposits at all operating temperatures
- Excellent cold-cracking capabilities
- Excellent anti-wear, anti-foam, anti-corrosion and anti-rust protection

SAE GRADES

- 5W-20, 5W-30, 10W-30, 10W-40



Product
Data

MOTOR OIL



FULL SYNTHETIC

Fully licensed, full synthetic motor oils are engineered for virtually all service classifications for domestic and foreign gasoline engines and are fully compatible with all other synthetic and petroleum-based motor oils.

APPLICATIONS

- Licensed API SP and ILSAC GF-6A (GF-6B for 0W-16) and covers all preceding specifications.
- STARFIRE 0W-20 can be used when Ford WSS M2C962-A1, M2C947-B1, M2C947-A, Chrysler MS-6395, GM 6094M or GM 4718 is specified
- STARFIRE 5W-20 can be used when Ford WSS M2C960-A1, M2C945-B1, M2C945-A, M2C930-A, M2C153, Chrysler MS-6395, MS10797 or GM 6094M is specified
- STARFIRE 5W-30 can be used when Ford WSS M2C961-A1, M2C946-B1, M2C946-A, M2C929-A, Chrysler MS-6395 or GM 6094M is specified

BENEFITS

- Provides Low Speed Pre-Ignition (LSPI) protection
- Superior protection against thermal breakdown and deposits at all operating temperatures
- Excellent cold-cranking capabilities
- Excellent anti-wear, anti-foam, anti-corrosion and anti-rust protection

SAE GRADES

- 0W-16, 0W-20, 5W-20, 5W-30, 10W-30



Product
Data



FULL SYNTHETIC DEXOS™ 1 GEN 3

State-of-the-art, advanced technology with exceptionally high viscosity index minimizes cold-weather oil thickening, preventing battery drain and engine wear, even at subzero startups. Licensed and approved through GM dexos™1 Gen 3 specifications for worldwide requirements for all GM automotive gasoline engines currently in use.

APPLICATIONS

- Licensed API SP and ILSAC GF-6A and covers all preceding specifications
- Use in all Buick, Chevrolet, Cadillac, and GMC vehicles starting in the 2011 model year
- An excellent choice for all earlier model year vehicles produced by GM
- STARFIRE 0W-20 can be used when Ford WSS M2C962-A1, M2C947-B1, M2C947-A, Chrysler MS- 6395, GM 6094M or GM 4718 is specified
- STARFIRE 5W-30 can be used when Ford WSS M2C961-A1, M2C946-B1, M2C946-A, M2C929-A, Chrysler MS-6395 or GM 6094M is specified

BENEFITS

- Provides Low Speed Pre-Ignition (LSPI) protection for small-displacement turbo-charged and Gasoline Direct Injected (GDI) engines
- Meets manufacturers' latest warranty requirements
- Enhanced rust protection for flex-fuel vehicles, specifically those that run on ethanol-based fuel (E85)

SAE GRADES

- 0W-20, 5W-30



Product
Data



MOTOR OIL

FULL SYNTHETIC EURO FORMULA

Delivers dependable, long-term performance for the extended drain intervals set by all major European automakers specifying a 5W-40 motor oil.

APPLICATIONS

- The preferred oil for virtually all European automobiles, especially turbo-charged models

BENEFITS

- Provides outstanding protection in high RPM, hot-running engines
- Designed for newer vehicle emission control systems
- Meets industry and vehicle manufacturers' requirements for long-life protection of gasoline vehicle catalytic converters
- STARFIRE Full Synthetic Euro 5W-40 meets or exceeds the following performance specifications: API SN and SM, ACEA A3/B3 and A3/B4, BMW LL-01, Mercedes-Benz 229.5 and 229.3, Porsche A40, Opel GM LL-B-025, Renault 0700 and 0710, Volkswagen 501 01, 502 00 and 505 00



**Product
Data**

HIGH MILEAGE

Fully licensed motor oils that meet or exceed the latest manufacturers' requirements for use in passenger car, SUV, and light duty truck gasoline engines, powerboats, motorcycles, and other stationary and mobile equipment. They are specially formulated for higher mileage vehicles to help protect worn seals, reduce oil loss, and prevent leaks.

APPLICATIONS

- Vehicles with 75,000 miles or more
- Licensed API SP and ILSAC GF-6A and covers all preceding specifications
- STARFIRE 5W-30 can be used when Ford WSS M2C961-A1, M2C946-B1, M2C946-A, M2C929-A, Chrysler MS-6395 or GM 6094M is specified

BENEFITS

- Special additives and seal conditioner for older vehicles
- Helps combat engine oil consumption
- Helps reduce oil loss caused by burn-off
- Superior protection against thermal breakdown and deposits at all operating temperatures
- Excellent anti-wear, anti-foam, anti-corrosion and anti-rust protection

SAE GRADES

- Synthetic Blend 10W-30
- Full Synthetic 5W-30



MOTOR OIL



Product Data



SYNTHETIC BLEND HEAVY DUTY

Specially engineered for heavy duty diesel and gasoline engines operating under all service conditions, including today's emission-controlled engines with EGR and diesel particulate filters using Ultra-Low Sulfur Diesel fuel (ULSD) and Low Sulfur Diesel (LSD). They provide extra protection and performance compared with conventional engine oil formulations, with excellent oxidation control and soot suspension characteristics to provide outstanding protection for extended drain intervals.

APPLICATIONS

- Meets or exceeds performance requirements for all naturally aspirated and turbo-charged four-stroke diesel engines in which the API CK-4 service category and preceding service categories and when 15W-40 or 10W-30 grades are recommended
- Formulated for engines operating under severe service conditions and a wide range of cold and hot temperatures

RECOMMENDATIONS:

Mack	Mercedes-Benz
Ford	Man
GLOBAL	MTU
Detroit Diesel	Volvo
Cummins	Allison
Renault	and more
Caterpillar	

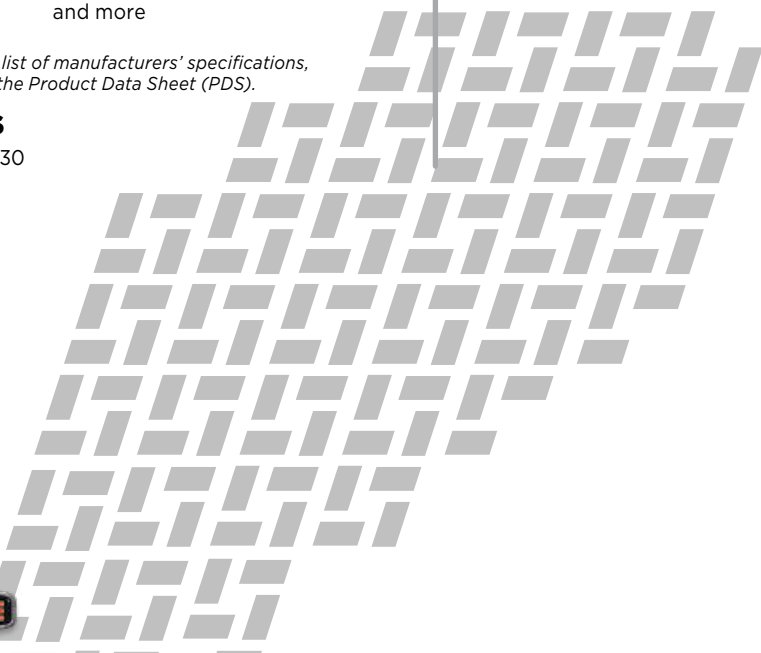
For a complete list of manufacturers' specifications, please refer to the Product Data Sheet (PDS).

SAE GRADES

- 15W-40, 10W-30



**Product
Data**



PREMIUM HEAVY DUTY

Formulated with high viscosity index paraffinic base oils and select additive technology to provide superior thermal and oxidative stability, to protect against corrosion (EGR critical) and valve train wear, and to prevent the formation and accumulation of deposits and sludge.

APPLICATIONS

- For all modern, heavy duty diesel and gasoline engines calling for an SAE 30 engine oil, operating in both highway and off-highway conditions
- Meets or exceeds the CF-2 and CF service classifications

BENEFITS

- Protection from deposits at all operating temperatures
- Anti-foam properties
- Anti-rust properties
- Soot control



Product
Data

MOTOR OIL

MULTI-USE 2-CYCLE ENGINE OIL

Premium, high-quality motor oil formulated for use in outboard motors, motorcycles, snowmobiles, chainsaws, garden equipment, and other fuel-lubricated or fuel-injected 2-cycle engines. It is formulated to prevent ring-sticking, to reduce spark plug fouling, and to keep engines clean.

BENEFITS

- Multi-application usage
- Ideal for oil-injected and fuel/oil-lubricated engines
- Meets API TC and JASO FB, TC-W3® specifications
- Licensed by National Marine Manufacturers Association (NMMA)



Product
Data

PERFORMANCE

Premium-quality oil formulated for gasoline engines. It contains only the highest quality, hydro-treated, paraffinic lubricating oils and a technologically advanced additive system, which includes detergents, dispersants, viscosity improver, anti-wear and anti-friction agents, and oxidation and corrosion inhibitors.

APPLICATIONS

- Acceptable for use in all domestic and foreign automotive gasoline-fueled passenger cars and light duty trucks where an SAE 20W-50 that meets API SP and preceding API service categories is specified

BENEFITS

- Superior protection against thermal breakdown
- Excellent protection from deposits and sludge at all operating temperatures
- Provides oxidation stability
- Anti-corrosion and anti-wear protection



Product
Data





TRANSMISSION FLUID

STARFIRE Premium and Full Synthetic transmission fluids are specially formulated with a unique combination of base stocks and advanced additive technology, designed to provide smooth performance and the assurance of meeting or exceeding ever-changing OEM requirements and specifications.



DEXRON® III / MERCON® MULTI-PURPOSE

Multi-purpose automatic transmission fluid especially designed and engineered to extend transmission life and provide smooth operation for Ford and General Motors vehicles where a DEXRON® III/MERCON® fluid is specified.

APPLICATIONS

- DEXRON® III H, DEXRON® III G, DEXRON® II, DEXRON®, AWI
- MERCON®, M2C138-CJ or M2C166-H fluids
- Allison C-4 fluids and Caterpillar TO-2 fluids
- In all 1979 through 2005 transmissions built by Ford (exceptions: Ford FMX and pre-1980 C-4 transmissions and where MERCON® V is required)

BENEFITS

- Wide range of seal compatibility
- Excellent wear protection and oxidation resistance
- Fortified against rust and corrosion
- Meets requirements for foam protection
- Superior frictional characteristics, with excellent friction and smooth shifting



**Product
Data**

FULL SYNTHETIC MULTI-VEHICLE

High-performance, low viscosity multi-vehicle transmission fluid that is specially formulated for use in most planetary-gear transmissions applications. It is approved for use in General Motors automatic transmissions calling for DEXRON® VI.

BENEFITS

- Full synthetic
- GM approved
- Protection against wear and transmission shudder
- Resistance to thickening due to high temperature
- Friction stability to maintain smooth, consistent shift performance

RECOMMENDATIONS:

Audi/VW	Kia	SAAB
BMW	Idemitsu	Saturn
Caterpillar	Isuzu	Subaru
Chrysler	Jaguar	Suzuki
Daewoo	Lexus	Toyota
Daihatsu	Mazda	Voith
Esso	Mercedes-Benz	Volvo
Fiat	Mitsubishi	VW
Ford	Mopar	
GM	Nissan	
Hino	Opel	
Honda	Peugeot	
Hyundai	Porsche	

For a complete list of manufacturers' specifications, please refer to the Product Data Sheet (PDS).



**Product
Data**

TRANSMISSION

FULL SYNTHETIC ATF+4®

Uniquely blended, full synthetic fluid designed to meet the specific requirements of Chrysler and FCA automatic transmissions/transaxles specifying any of the applications below.

APPLICATIONS

- Mopar ATF+4®, Mopar ATF+3®, Mopar ATF+2®, Mopar ATF+®
- Type MS-9602®
- Type MS-7176®

BENEFITS

- Excellent high and low temperature protection
- Resistance to thickening due to high temperatures
- Friction stability to maintain smooth, consistent shift performance



Product
Data

FULL SYNTHETIC CVT

Specially formulated and recommended for use in most belt-driven Continuously Variable Transmissions, and it is not a replacement for ATF.

APPLICATIONS

Suitable for use in the following applications:

Audi/	Mazda
Volkswagen	Mercedes-Benz
BMW	Mini Cooper
Daihatsu	Mitsubishi
Dodge/Jeep	Nissan
Ford /Motorcraft	Renault
GM/Saturn	Subaru
Honda	Suzuki
Hyundai/Kia	Toyota

For a complete list of manufacturers' specifications, please refer to the Product Data Sheet (PDS).



Product
Data

6-GALLON ECO-BOX & DISPENSING SYSTEM

An innovative design that provides professional installers with a cost-effective alternative for offering a wider variety of STARFIRE motor oils and fluids. The innovative Eco-Box design reduces plastic packaging by as much as 85% when compared with quart packaging. The flexible bag-in-box design also provides a significant reduction in residual oil that would normally be left in conventional plastic packing, so there is less wasted product!

STARFIRE ECO-BOXES ARE AVAILABLE IN:

FULL SYNTHETIC MOTOR OIL

- 0W-16
- 0W-20 dexos™ 1 Gen 3
- 5W-20
- 5W-30 dexos™ 1 Gen 3
- 5W-40 Heavy Duty
- 5W-40 Euro

SYNTHETIC BLEND MOTOR OIL

- 5W-20
- 5W-30
- 10W-30
- 15W-40 Heavy Duty

AUTOMATIC TRANSMISSION FLUID

- Multi-Purpose ATF DEXRON® III/MERCON®
- Full Synthetic Multi-Vehicle ATF

BENEFITS

- Space-saving rack dispensing system
- Quick access to up to 6 different products
- User-friendly dispensing system
- Inventory cost savings





GEAR LUBRICANTS

The **STARFIRE** comprehensive lineup of gear lubricants satisfies a diverse fleet's increased demands for extended protection. They are formulated with refined paraffinic base stocks and a sulfur-phosphorus extreme-pressure additive package.

PREMIUM GEAR LUBRICANT

Multi-purpose lubricants designed for service in automotive and heavy duty applications. They provide excellent thermal and oxidative stability, as well as anti-foam, anti-rust and anti-corrosion protection, and they have excellent load-carrying capabilities.

Note: These products are not approved for Eaton Roadranger and ArvinMeritor Extended Warranties.

APPLICATIONS

- STARFIRE GL-5 Gear Lubricant meets the API GL-5 Service Designation as well as the MIL-L-2105F and MIL PRF 2105E and is suitable for use in limited-slip differentials
- Also suitable for use in Mack GO-H & GO-J and Proposed PG-1/PG-2 Service Designations, Scania ST0 110, MERITOR®-076D (80W90), and MERITOR®-076A (85W140), MAN 342 M2 (160,000 km), and MB 235
- Meets API MT 1. For use when extreme-pressure (EP) gear oils are required: in all heavy duty truck differentials, in all domestic automobile differentials and some manually shifted transmissions, heavy duty manually shifted truck transmissions requiring API MT 1 performance, and oil-lubricated wheel bearings

SAE GRADES

- 80W-90, 85W-140



**Product
Data**

FULL SYNTHETIC GEAR LUBRICANT

Multi-purpose lubricants designed for service in automotive and heavy-duty applications. Formulated with synthetic base stocks and a sulfur-phosphorus extreme-pressure additive package with friction modifier, which provides excellent thermal and oxidative stability as well as excellent load-carrying capabilities.

APPLICATIONS

STARFIRE Full Synthetic 75W-90, 75W-140 and 80W-140 Gear Lubricants are suitable for use in the following applications:

- API GL-5
- API MT-1
- MIL-PRF-2105E and MIL-PRF-2105D
- Mack GO-J, GO-H
- PG-2 limited slip differentials

STARFIRE Full Synthetic 50W Transmission Oil is suitable for use in the following applications:

- API MT-1
- Eaton PS-164 Rev 7
- Navistar/International TMS 6816
- Mack TO-A Plus
- MERITOR® O-81 (Publication TP-90014)
- ZF Freedomline

BENEFITS

- Provides excellent protection against wear under extreme pressure and high torque operation
- High resistance to thermal breakdown
- Helps prevent foaming, rust, and corrosion

SAE GRADES

- 75W-90, 75W-140, 80W-140, 50W



Product
Data



HYDRAULIC OILS

STARFIRE hydraulic oils are high-performance hydraulic fluids recommended in all major OEM equipment. They contain active anti-wear agents, anti-oxidation, anti-corrosion, anti-rust and anti-foam additives formulated to deliver ultimate equipment protection and extended operating life.



ANTI-WEAR (AW) HYDRAULIC OIL

Formulated from select base stocks and advanced additive technology to deliver ultimate equipment protection and extended operating life.

APPLICATIONS

Recommended for hydraulic pumps and hydraulic and high-pressure circulating systems requiring:

- Parker Hannifin (Denison) HF-O, HF-1, HF-2
- Eaton Vickers 35VQ25A Pump, M-2950-S, I-286-S
- Cincinnati Milacron P-68, P-69, P-70
- DIN 51524 Part 2, 3

BENEFITS

- Formulated with premium base stocks for added resistance to thermal breakdown
- Outstanding wear protection
- Excellent resistance to system rust and oil oxidation
- Maintains excellent water-separating properties
- Excellent foam control and air release deliver consistent system operation

ISO GRADES

- AW32, AW46, AW68

NON-DETERGENT LUBRICATING OILS

Manufactured using highly refined base oils for increased lubrication and wear protection in operating conditions which do not require a detergent oil. STARFIRE ND Lubricating Oils satisfy API SA performance.

CAUTION: This oil is rated API SA. It contains no additives. It is not suitable for use in most gasoline-powered automotive engines built after 1930. Use in modern engines may cause unsatisfactory engine performance or equipment harm.

APPLICATIONS

- Light engines calling for non-additive motor oil
- Compressors
- Circulating oil
- Low-pressure hydraulic systems

BENEFITS

- Highly refined base stocks provide superior lubrication
- Superior anti-foam control
- Wide range of applications



**Product
Data**



**Product
Data**

MEF-3 MOBILE EQUIPMENT FLUID

Field-tested in farm, construction, and logging equipment. This multi-purpose hydraulic lubricant is an economical lubricant suited for equipment that requires frequent fluid replacement.

APPLICATIONS

- Multi-purpose lubricant applications
- Older, aging equipment
- Not recommended for equipment manufactured after 1974

BENEFITS

- Anti-wear protection
- Good seal compatibility
- Protection against rust and oxidization
- Economical multi-purpose lubricant



Product Data

PREMIUM TRACTOR HYDRAULIC FLUID

Recommended for use in all major OEM equipment. Designed for use in a variety of farm equipment, off-highway machinery, industrial tractors, final drives, power take-off units, wet brakes, power steering units, and hydraulic systems. It provides the unique combination of ultimate equipment protection and the convenience of using one fluid in place of two or more fluids while maintaining optimum component performance and durability.

APPLICATIONS

John Deere: J20C	J.I. Case
International Harvester	Case New Holland
AGCO (Massey Ferguson)	Kubota, Volvo, Caterpillar
AGCO-Allis	

For a complete list of manufacturers' specifications, please refer to the Product Data Sheet (PDS).

BENEFITS

- Superior wear protection to protect critical components
- Excellent frictional properties for smooth shifting
- Excellent anti-shudder performance
- Good seal compatibility
- Protection against varnish and sludge formation
- Superior thermal stability and oxidation resistance



Product Data

HYDRAULIC



ANTIFREEZE/COOLANTS

From light duty to extended life and extreme heavy duty—**STARFIRE** antifreeze and coolants, either 50/50 Pre-Diluted or Concentrate, are designed for use in virtually all of today's cooling system applications, providing the life and protection you expect.

CONVENTIONAL GREEN

Premium ethylene glycol-based antifreeze that provides all-season protection and, when used as directed, offers superior protection against:

- Freeze-up
- Boil over
- Scale buildup
- Rust corrosion
- Sludge/clogging
- Wet sleeve liner pitting

APPLICATIONS

- Meets light duty ASTM D-3306 and heavy duty ASTM D-6210, TMC RP329
- One universal product for light duty and heavy duty applications
- No need to add SCAs or chemical filters
- Compatible with all conventional green antifreeze

Meets the following OEM Specifications:

Case	GM
Caterpillar	GMC Truck
Chrysler	International
Detroit Diesel	John Deere
Ford	Mack
Freightliner	Military
GE Locomotive	Orion/MCI Coaches

For a complete list of manufacturers' specifications, please refer to the Product Data Sheet (PDS).

Available in concentrate and pre-diluted formulas.



Product Data

ALL MAKES ALL MODELS

A true universal antifreeze/coolant that can be used as a top-off or a complete flush and fill in virtually any application. Its HOAT chemistry is designed for both light duty automotive and heavy duty diesel use. STARFIRE All Makes All Models is a premium ethylene glycol-based product and, when mixed with water and used as directed, offers superior protection against:

- Freeze-up
- Boil over
- Scale buildup
- Rust corrosion
- Sludge/clogging
- Wet sleeve liner pitting

APPLICATIONS

- Meets light duty ASTM D-3306 and heavy duty ASTM D-6210, TMC RP329
- One universal product for light duty and heavy duty applications
- Perfect choice for mixed fleets; no need to add SCAs
- Phosphate free and low silicate - the choice for Japanese and Korean models
- Light duty - 5 years/150,000 miles; heavy duty - 3 years/300,000 miles

Meets the following OEM Specifications:

Case	GE Locomotive
New Holland	GM
Caterpillar	International
Chrysler	John Deere
Cummins Engine	Komatsu
Detroit Diesel	Mercedes
Ford	Navistar
Freightliner	Volvo Trucks

For a complete list of manufacturers' specifications, please refer to the Product Data Sheet (PDS).

Available in concentrate and pre-diluted formulas.



Product Data

PURECOOL EXTENDED LIFE

A premium, virgin, ethylene glycol-based product that may be used in all GM vehicles that require DEX-COOL® coolant, as well as other cars and light duty trucks with aluminum radiators.

APPLICATIONS

- Meets GM 6277M, ASTM D3306 and ASTM D4985
- May be added to conventional antifreeze/coolant
- Protects aluminum and ANY other engine metals
- Meets GM and Ford performance specifications
- DEX-COOL® is a registered trademark of GM Corporation

Available in concentrate and pre-diluted formulas.



ANTIFREEZE



Product
Data

PUREFLEET HEAVY DUTY ELC

When used as directed, offers superior performance in virtually every light and heavy duty application. The proprietary inhibitor package is low silicate and phosphate/2-EH free. Can be used as a top-off, but to achieve maximum protection, a complete flush and fill should be performed. Provides protection against:

- Freeze-up
- Boil over
- Scale buildup
- Rust corrosion
- Sludge/clogging
- Wet sleeve liner pitting

APPLICATIONS

- Meets light duty ASTM D-3306 and heavy duty ASTM D-6210, TMC RP329
- One product for light duty and heavy duty applications
- Perfect choice for mixed fleets; no need to add SCAs
- Blended with pure deionized water for your quality needs
- Phosphate free and low silicate - the choice for Japanese and Korean models
- Light duty - 5 years/150,000 miles
- Heavy duty - 3 years/300,000 miles
- Compatible with hybrid and OAT coolants

Meets the following OEM Specifications:

Case New Holland	GM
Caterpillar	International
Chrysler	John Deere
Cummins Engine	Komatsu
Detroit Diesel	Mercedes
Ford	Navistar
Freightliner	Volvo Trucks
GE Locomotive	

For a complete list of manufacturers' specifications, please refer to the Product Data Sheet (PDS).

Available in concentrate and pre-diluted formulas.



Product Data

PUREFLEET EXTREME HEAVY DUTY ELC

A premium, virgin, ethylene glycol-based heavy duty antifreeze/coolant that contains a proprietary poly-organic/multi-organic acid technology inhibitor system. It provides total cooling system protection without the use of additive-containing coolant filters or supplemental coolant additives (SCAs).

APPLICATIONS

- Meets ASTM D3306, ASTM D4985, ASTM D6210, TMC RP-329/330 and Caterpillar EC-1
- Compatible with ALL types of coolant technologies, including conventional inorganic acid salt formulations, straight organic acid (OAT) formulations, hybrid organic acid formulations (HOAT), nitrited HOAT formulations (NOAT), and other poly-organic acid formulations
- Provides up to 750,000 miles of total cooling system protection
- Suitable for passenger cars, vans, SUVs, light trucks, heavy duty fleet vehicles and many off-road applications such as stationary engine cooling systems

Meets the following OEM Specifications:

Audi	Mazda
BMW	Mercedes-Benz
Caterpillar	Mitsubishi
Chrysler	Navistar/International
Cummins	PACCAR: Kenworth,
Detroit Diesel	Peterbilt
Ford	Porsche
GM	Saab
Honda	Suzuki
Hyundai	Toyota
Isuzu	Volkswagen
John Deere	Volvo

For a complete list of manufacturers' specifications, please refer to the Product Data Sheet (PDS).

**Available in concentrate and
pre-diluted formulas.**



**Product
Data**



GREASE

STARFIRE greases are formulated to provide outstanding water resistance and protection against wear and corrosion. They are recommended for most automotive, construction and industrial applications, from moderate to severe heavy duty.



HI-TEMP RED EP 2

Recommended for most automotive and industrial applications, including trucks, automobiles, construction equipment and heavy duty industrial service. Commonly recommended for wheel bearings, U-joints, chassis, and fifth wheels, as well as heavy duty industrial ball, roller and sleeve bearing designs. Licensed with NLGI to meet NLGI GC/LB specifications for automotive wheel bearings and chassis lubrication.

BENEFITS

- High-temperature capability
- Excellent thermal and mechanical stability
- Oxidation and rust resistance
- Excellent water resistance
- Good low-temperature pumpability
- Extreme pressure additive
- Compatible with lithium or lithium complex greases
- Excellent adhesion properties, tacky consistency



Product
Data

GREASE

MULTI-PURPOSE EP 2

Recommended for moderate speed and temperature applications. Suitable for bearing temperatures up to 121°C (250°F) and down to -12.2°C (10°F). Lithium hydroxystearate thickener and extreme pressure (EP) additives provide excellent lubrication performance for automotive chassis, electric motor bearings, universal joints, fifth wheels and general-purpose bearing lubrication.



Product
Data

3% MOLY EP 2

A high-quality multi-purpose grease for construction, industrial and transportation service. It has a lithium complex thickener for compatibility with a wide range of industrial greases. Fortified with 3% molybdenum disulfide for additional EP protection. Also recommended for high-temperature service.

APPLICATIONS

Can be used in any ball or roller bearing application. It is specifically designed for use in heavy duty construction equipment where high shock loads and water wash-out are required. NLGI GC-LB performance guarantees excellent wheel bearing performance. Molybdenum disulfide provides EP protection when the bulk grease has dissipated. This is vital for reciprocating bearings such as backhoe knuckle bushings and universal joints.

FEATURES

- Excellent extreme pressure properties
- High shock load resistance
- Excellent rust and corrosion protection
- Outstanding oxidation stability

SPECIFICATIONS

- Caterpillar multi-purpose grease with 3% Moly



Product
Data



FUNCTIONAL FLUIDS

STARFIRE functional fluids are a one-stop resource for aerosols and pour chemicals that help provide optimal efficiency, increased mileage and increased engine life.

BRAKE FLUID

STARFIRE Brake Fluids meet or exceed the high standards of performance and safety for DOT 3 and DOT 4 fluids.

APPLICATIONS

- For all disc and drum brake systems, including ABS, in which a DOT 3 or DOT 4 fluid is recommended
- Complies with Federal Motor Vehicle Safety Standard (FMVSS) No. 516.116
- Surpasses SAE Spec. J1703 (DOT 3), SAE Spec. J1704 and ISO 4925 (DOT 4)
- Minimum wet boiling point 284°F (140°C)



Product
Data

POWER STEERING FLUID

Provides optimum protection in power steering systems of both foreign and domestic automobiles. Controls seal swelling and protects pump parts against wear while providing the proper friction coefficient for system operation.

APPLICATIONS

- Suitable for use in most passenger car and light truck applications
- NOT recommended for systems where special fluids are specified, e.g., Saab, Honda, Mercedes-Benz, etc.



Product
Data

MOTR TREATMENT

Specially formulated fuel and carburetor cleaner for use in gas and diesel engines. It helps reduce hesitation and rough idle and eliminates noisy lifters. It also eliminates moisture and ice problems. Great for use in cars, trucks, boats, tractors and small engines.

APPLICATIONS

- Any gasoline or diesel engine
- Oil treatment in crankcase
- Fuel treatment during fill-up

BENEFITS

- Upper cylinder lubricant
- Adds lubricity to fuel
- Cleans up motor sludge
- Removes varnish



Product
Data

AIR BRAKE ANTIFREEZE AND CONDITIONER

Helps clean, condition and protect all air brake systems. Contains no ingredients or residues which can corrode brake line systems. It contains only the purest anhydrous-grade methanol.

BENEFITS

- Prevents moisture and freeze-ups, even in sub-zero weather
- Rust and corrosion inhibitor
- Works in all air brake systems
- Ultra-pure formula



Product
Data

STARFIRE DEF

A mixture of 32.5% high-purity urea and 67.5% deionized water that is used in Selective Catalytic Reduction (SCR) systems on diesel engines.

BENEFITS

- API licensed
- Meets or exceeds all OEM specifications
- Conforms to ISO 22241-1 specification for DEF

HANDLING

- Use only dedicated DEF equipment when handling/ dispensing DEF, and keep dispensing equipment clean and free of dirt or other contaminants
- DO NOT add DEF to diesel fuel tank
- DO NOT add diesel fuel to DEF tank
- DO NOT add water to DEF



**Product
Data**



POUR CHEMICALS

Specially formulated to improve performance and extend engine and component life.

FUEL INJECTOR & CARB CLEANER

Uses the latest technology in gasoline detergency to clean and lubricate fuel injectors and carburetors and restore fuel flow and performance.

BENEFITS

- Cleans fuel system as you drive
- Dissolves gum and varnish
- Contains no alcohol
- Restores lost power
- Reduces rough idle and stalling
- Increases mileage
- Will not harm catalytic converters or oxygen sensors



Product Data



GAS TREATMENT

A special blend of powerful cleaners designed to clean the entire fuel system of gum, varnish, and deposits. Will not harm catalytic converters or oxygen sensors. Works with both fuel injectors and carburetors.

BENEFITS

- Cleans as you drive
- Restores lost power
- Reduces rough idle and stalling



Product Data



MOTOR FLUSH

Designed to remove sludge, gum and varnish from your engine and improve oil flow.

BENEFITS

- Extends engine life
- Frees sticky valves and rings in 5 minutes
- Restores oil flow throughout the engine
- Use twice a year to keep engine clean



Product Data



OCTANE BOOSTER

Designed to restore lost power, reduce hesitation and stalling, and prevent difficult starting.

BENEFITS

- Cleans fuel system as you drive
- Restores fuel flow
- Dissolves fuel system deposits
- Effective with methanol and alcohol fuel mixtures



Product Data



OIL TREATMENT

Advanced formula designed to provide a protective barrier against friction and heat.

BENEFITS

- Improves oil viscosity
- Can be added between drains to fortify the oil
- Keeps engine parts clean
- Coats engine with a tough, slippery film that resists heat and pressure
- Protects against corrosion



Product Data



FUNCTIONAL

TEC-A AEROSOLS

Aerosol products provide a convenient, efficient and cost-effective way to apply the necessary lubricant or chemical for your application.

TEC-A-BRAKE®

LOW VOC BRAKE & PARTS CLEANER

Non-chlorinated formula that quickly and effectively removes grease, brake dust, brake fluids, oils, and other contaminants. Do not use on electrical motors or circuits and avoid contact with rubber and plastic.

APPLICATIONS

- ABS
- Discs
- Drum
- Brake cylinders, drums, linings, shoes
- Clutch discs
- Disc brake pads

BENEFITS

- Fast drying
- Removes grease, oil, brake fluid and other contaminants from disc and drum brake components instantly
- Leaves no residue
- Cleans without disassembly
- Helps stop brake squeaking and can improve braking performance
- 10% and 45% VOC formulas available



Product Data

TEC-A-START® STARTING FLUID

Professional-grade engine starting fluid. It is a balanced formulation combining active, volatile solvents, upper cylinder lubricant and corrosion inhibitors, each designed to play a vital part in starting engines.

APPLICATIONS

- Cars, trucks, buses, tractors
- Motorbikes and motorcycles
- Chainsaws
- Boats (inboard and outboard)
- Go-carts
- Stationary engines
- Compressors
- Diesel, gasoline, and kerosene engines
- 2-cycle and 4-cycle engines

BENEFITS

- Ensures fast, economical starting of all diesel and gasoline engines
- Reduces starter motor and spark plug wear
- Saves battery strain and engine wear during cold start
- Equipped with the 360° (upside down) spray valve and extension tube for added convenience



Product Data

TEC-A-CARB™ CARB/CHOKE CLEANER

Quickly dissolves and removes harmful carbon, gum, sludge and varnish deposits from throttle plates, manifold heat control valves, PCV valves, automatic chokes, combustion chambers, and carburetor linkages and passages. Serves as an excellent penetrant to free hard-to-reach passages and sliding surfaces that are clogged or bound by gum, carbon, or corrosive deposits. Safe for oxygen sensors and catalytic converters.

BENEFITS

- Quickly dissolves deposits
- Restores performance
- Removes varnish
- Non-chlorinated



Product
Data

TEC-A-GLASS™ GLASS CLEANER

Quickly cleans glass, mirrors, windshields and windows. Its clinging foam formula quickly removes fingerprints, smudges, lipstick, light grease, bugs, dust, dirt, smoke film and other residues from glass surfaces. Dries quickly, requires no rinsing, and leaves a pleasant, fresh aroma.

APPLICATIONS

- Industrial
- Commercial
- Institutional
- Automotive
- Household

BENEFITS

- Clinging foam formula-no dripping or running
- Leaves a streak-free shine
- No ammonia
- Dries quickly
- Pleasant, fresh scent
- Ergonomically designed spray tip for maximum comfort during use



Product
Data

FUNCTIONAL

TEC-A-NUT™ PENETRATING OIL

Fast-acting penetrant that quickly cuts through grease, penetrates corrosion and dissolves rust to free seized parts. Gets into cracks and crevices to displace water and leave a protective film to protect against rust and corrosion.

APPLICATIONS

- Loosens, cleans, lubricates, and protects nuts/bolts, lock mechanisms, hinges, pipe threads, lug nuts and equipment subject to moisture

BENEFITS

- Helps free seized parts
- Displaces moisture
- Silences squeaks
- Non-chlorinated spray valve and extension tube for added convenience



Product
Data



ANCILLARY PRODUCTS

STARFIRE can supply a comprehensive array of products, from windshield washer fluid and bar & chain oil to hand cleaner and absorbent, so you have a one-stop source for the all the products you need for everything that keeps you moving.



RV & MARINE ANTIFREEZE

Provides burst protection in potable water systems down to -50°F. An economical alternative for the winterization of campers, RVs, boats, and summer homes.

BENEFITS

- 2 formulations: ethanol blend and PG only
- No mixing required
- Non-toxic
- Safe for freshwater systems



Product
Data

WINDSHIELD WASHER FLUID

Formulated to provide the additional freezing protection that water just cannot provide. Clears windshields of dirt, bug stains, frost, and ice.

BENEFITS

- No mixing necessary
- Freeze protection to -20°F
- Harmless to car finishes



Product
Data

WINDSHIELD WASHER CONCENTRATE

BENEFITS

- Lowers freeze point on existing fluid that was subject to alcohol evaporation
- Environmentally conscious with reduced plastic packaging
- Saves inventory space



Product
Data

ANCILLARY

PURPLESTAR DEGREASER

Powerful, concentrated, non-hazardous cleaner and degreaser. Special deep-cleaning formulation separates, entraps and removes grease, dirt, oil, and grime from almost every type of surface.

APPLICATIONS

- Works in manual, mechanical and pressure-washing systems
- Concentrated
- Dilute up to 20:1

BENEFITS

- Non-flammable, non-abrasive
- Water based
- Readily biodegradable and solvent (VOC) free
- Safe to use on any water-washable surface or material
- Rinses quickly for residue-free surfaces
- Retards post-cleaning rusting and oxidation



Product
Data

INDUSTRIAL BAR & CHAIN OIL

Premium lubricant designed to prevent rusting and reduce wear and link breakage, thus extending bar and chain life. High tackifier formula provides maximum resistance to dropping and throw-off, even at the highest speeds. High viscosity index makes it an excellent choice for commercial bar and chain applications.

APPLICATIONS

- Commercial logging operations
- Professional tree-trimming services
- Professional clearing operations
- Homeowners seeking premium-grade protection



Product
Data

INDUSTRIAL HAND CLEANER

Non-solvent industrial hand soap that's formulated with natural walnut scrubbers for the toughest cleaning without drying out your hands. Multiple emollients and conditioners moisturize chapped skin with repeated use.

APPLICATIONS

- Use on hands to liquify and remove stubborn industrial soils, grease, oil, tar, ink, paint and more

BENEFITS

- An official USDA-certified biobased product. The super-concentrated formula reduces hand soap use by up to 75%. Leaves no greasy residue.



Product
Data

GRIME TIME HEAVY DUTY HAND & SURFACE WIPES

Built for ultimate performance. The abrasive side cuts through the toughest soils, while the smooth side allows for wiping the most delicate surfaces. Fortified with new-generation cleaning agents and unmatched skin conditioners.

APPLICATIONS

- Use on grease, grime, oil, and many other soils
- Use as a hand cleaner or surface wipe to take on the toughest jobs

BENEFITS

- Multi-purpose
- Two-sided cleaning wipe
- Fortified with skin conditioners



Product
Data

ANCILLARY

ZOMBIE DRY ABSORBENT

Kiln-dried, calcined and milled natural Montmorillonite Clay (CAS # 70892-59-0) with lower bulk density, higher absorptive capacity, higher surface area and high hardness (low solubility).

SCREEN SIZE*

U.S.A. Standard Test Sieve (ASTME-II)	
+10 MESH.....	5%
+20 MESH.....	50%
+50 MESH.....	40%
+PAN	<5%
	(100.00%)

**Typical analysis of standard product, individual results may vary.*



Product Data

MULTI-PURPOSE ABSORBENT

Kiln-dried, calcined and milled natural Montmorillonite Clay (CAS # 70892-59-0) with medium bulk density, medium absorptive capacity, average surface area and high hardness (low solubility).

SCREEN SIZE*

U.S.A. Standard Test Sieve (ASTME-II)	
+4 MESH	0%
+6 MESH	16%
+10 MESH.....	40%
+20 MESH.....	35%
+30 MESH.....	5%
+60 MESH.....	<5%
+PAN	<0.5%
	(100.00%)

**Typical analysis of standard product, individual results may vary.*



Product Data

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