

OIL 3051B replaces OIL 3051A

# 2022 Motorcraft® Lubricants and Chemicals



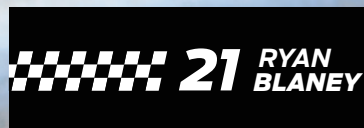
[motorcraft.com](http://motorcraft.com)



**Motorcraft®**

## To some, it's a metal tube.

To us, it's 1 3/4-inch, .090-gauge stainless steel tubing that makes up the roll cage of the Motorcraft® Wood Brothers Racing #21 Fusion. A little tube that's designed to withstand an impact at 225 miles per hour. And it's that kind of thinking that always goes into Motorcraft®. Another big deal.



**Motorcraft®**

Motorcraft® is a registered trademark of Ford Motor Company.

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# Phone Directory

## Ordering Information

Service Chemicals can be ordered for direct ship delivery via D.O.E.S. II or through your local Ford Authorized Distributor (FAD).

Parts Ordering Assistance: FMCDealer / Parts & Service / Parts Ordering & Receiving

To locate your local FAD: FMCDealer / Parts & Service / Parts Department Tools / FAD Locator

## Service Chemical Direct Ship Distributors Customer Assistance

Phillips 66 (800) 858-5576

Kem Krest Corporation (formerly Excelda Manufacturing) (800) 550-4062

## Other Contact Information

Safety Data Sheets (SDSes) (800) 448-2063

Dealer Business Assistance Center FMCDealer / Dlrs Ask Ford BAC

Poison Control (800) 959-3673

## Online Service Chemical Catalog

Visit <https://www.fcsdchemicalsandlubricants.com> for up-to-date product information.

*Note: To continue to provide superior quality, Motorcraft reserves the right to change the composition of its products without notice.  
Effective October 2006*



## Medical Information and Safety Data Sheets (SDSes)



For **Medical Emergency Information *only***, contact the Poison Control Center at 1-800-959-3673 (Ford). Available 24 hours a day.

For copies of the most current Ford Motor Company Service Chemical and Lubricant **Safety Data Sheets (SDSes) *only***, please use one of the following options:

- 1 INTERNET** Log on to [www.fordsds.com](http://www.fordsds.com).
- 2 E-MAIL** E-mail your request to [msds@brownart.com](mailto:msds@brownart.com). Include the information requested on the next page.
- 3 FAX** Copy and complete the form on the next page, then fax the form to **1-800-466-3753** (24 hours a day).
- 4 PHONE** Call toll-free **1-800-448-2063** and speak to a Ford SDS Help Desk representative (8 a.m. to 5 p.m. EST, Monday through Friday).



# Safety Data Sheet (SDS) – Request Form

– Please Use This Form to Fax in Request for Safety Data Sheets –

Your Name: \_\_\_\_\_

Your Company: \_\_\_\_\_ Are you a:  Dealer  Distributor  Other

Your Street Address: \_\_\_\_\_

Your City, State, Zip: \_\_\_\_\_

Your Phone Number: \_\_\_\_\_

Your Fax Number: \_\_\_\_\_

Your E-mail Address: \_\_\_\_\_

Your preferred method of receiving SDSes:  E-mail  Fax  Mail

1. Product Name: \_\_\_\_\_

Part Number(s): \_\_\_\_\_

FIR (Tox) Number: \_\_\_\_\_

2. Product Name: \_\_\_\_\_

Part Number(s): \_\_\_\_\_

FIR (Tox) Number: \_\_\_\_\_

3. Product Name: \_\_\_\_\_

Part Number(s): \_\_\_\_\_

FIR (Tox) Number: \_\_\_\_\_

4. Product Name: \_\_\_\_\_

Part Number(s): \_\_\_\_\_

FIR (Tox) Number: \_\_\_\_\_

**Please fax completed form to:**

Ford SDS Help Desk  
1-800-466-3753  
24 hours a day

**Or mail completed form to:**

Ford Motor Company  
c/o Brown Art Corporation  
Attn: Ford SDS Help Desk  
5840 Sterling Dr #110  
Howell, MI 48843

**Or call the Ford SDS Help Desk:**

Ford SDS Help Desk  
1-800-448-2063  
8 a.m. to 5 p.m. EST Monday – Friday

## SAE 0W-20 Full Synthetic Motor Oil



Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
XO-0W20-QFS	WSS-M2C962-A1	1 Qt.	1	12 (Case Qty.)	200010 / 508183
XO-0W20-5QFS	WSS-M2C962-A1	5 Qt.	1	3 (Case Qty.)	200010 / 508183
XO-0W20-DFS	WSS-M2C962-A1	55 U.S. gal.	1	N/A	200010 / 508183

- Motorcraft® SAE 0W-20 Full Synthetic Motor Oil is a premium-quality passenger car motor oil recommended by Ford Motor Company and meets all warranty requirements. It is API Certified for gasoline engine service ILSAC GF-6 and meets API SP/Resource Conserving and SN PLUS
- Motorcraft® SAE 0W-20 Full Synthetic Motor Oil is manufactured with high-viscosity index, premium-quality, synthetic base oils that provide good high temperature and low temperature performance. It helps minimize engine deposits and wear, protect against high-temperature oxidation and turbocharger desposits, low-temperature gelling, rust corrosion and foaming. The friction-reducing technology in this motor oil provides superior wear protection and energy-conserving characteristics, which result in significant improvement in fuel economy when compared to SAE 5W-30 motor oils. This oil also meets WSS-M2C962-A1 and reduces oil derived low speed pre-ignition
- Motorcraft® SAE 0W-20 Full Synthetic Motor Oil is also formulated to meet General Motors vehicles' maintenance needs
- Refer to the Motorcraft® SAE 0W-20 Full Synthetic Motor Oil product data sheet at [www.fcsdchemicalsandlubricants.com](http://www.fcsdchemicalsandlubricants.com)

**Note:** SAE 0W-20 Full Synthetic Motor Oil is available in bulk quantities at substantial savings. Use of bulk oil products is environmentally proactive. Contact your FCSD Aftermarket Sales Manager or an approved Motorcraft® Bulk Oil Distributor, or [www.fmcdealer.dealerconnection.com](http://www.fmcdealer.dealerconnection.com) for details.



## SAE 5W-20 Full Synthetic Motor Oil



Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
XO-5W20-QIFS	WSS-M2C960-A1	1 Qt.	1	12 (Case Qty.)	202189 / 502970
XO-5W20-DFS	WSS-M2C960-A1	55 U.S. gal.	1	N/A	202189 / 502970

- Motorcraft® SAE 5W-20 Full Synthetic Motor Oil is a premium-quality passenger car motor oil recommended by Ford Motor Company and meets all warranty requirements. It is API Certified for gasoline engine service ILSAC GF-6 and meets API SP/Resource Conserving and SN PLUS
- Motorcraft® SAE 5W-20 Full Synthetic Motor Oil is manufactured with high-viscosity index, premium-quality, synthetic base oils that provide good high temperature and low temperature performance. It provides improved protection against engine wear, and deposits, oil thickening and oil derived low speed pre-ignition, while continuing to prevent turbocharger deposits, low-temperature gelling, rust corrosion and foaming. The friction-reducing technology in this motor oil provides superior wear protection and energy-conserving characteristics, which result in significant improvement in fuel economy when compared to SAE 5W-30 and 10W-30 motor oils. This oil also meets WSS-M2C960-A1
- Refer to the Motorcraft® SAE 5W-20 Full Synthetic Motor Oil product data sheet at [www.fcsdchemicalsandlubricants.com](http://www.fcsdchemicalsandlubricants.com)

**Note:** SAE 5W-20 Full Synthetic Motor Oil is available in bulk quantities at substantial savings. Use of bulk oil products is environmentally proactive. Contact your FCSD Aftermarket Sales Manager or an approved Motorcraft® Bulk Oil Distributor, or [www.fmcdealer.dealerconnection.com](http://www.fmcdealer.dealerconnection.com) for details.



## SAE 5W-20 Synthetic Blend Motor Oil

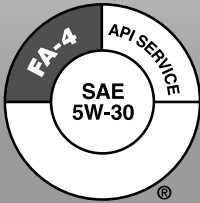


Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
XO-5W20-Q1SP	WSS-M2C960-A1	1 Qt.	1	12 (Case Qty.)	202189 / 502970
XO-5W20-5Q3SP	WSS-M2C960-A1	5 Qt.	1	3 (Case Qty.)	202189 / 502970
XO-5W20-DSP	WSS-M2C960-A1	55 U.S. gal.	1	N/A	202189 / 502970

- Motorcraft® SAE 5W-20 Synthetic Blend Motor Oil is a premium-quality passenger car motor oil recommended by Ford Motor Company and meets all warranty requirements. It is API Certified for gasoline engine service ILSAC GF-6 and meets API SP/Resource Conserving and SN PLUS
- Motorcraft® SAE 5W-20 Synthetic Blend Motor Oil is manufactured with high-viscosity index, premium-quality, synthetic/hydroprocessed base oils and specially designed performance additives, which provides improved protection against engine wear, and deposits, oil thickening and oil derived low speed pre-ignition, while continuing to prevent turbocharger deposits, low-temperature gelling, rust corrosion and foaming. The friction-reducing technology in this motor oil provides superior wear protection and energy-conserving characteristics, which result in significant improvement in fuel economy when compared to SAE 5W-30 and 10W-30 motor oils. This oil also meets WSS-M2C960-A1
- Refer to the Motorcraft® SAE 5W-20 Synthetic Blend Motor Oil product data sheet at [www.fcscdchemicalsandlubricants.com](http://www.fcscdchemicalsandlubricants.com)

**Note:** SAE 5W-20 Synthetic Blend Motor Oil is available in bulk quantities at substantial savings. Use of bulk oil products is environmentally proactive. Contact your FCSD Aftermarket Sales Manager or an approved Motorcraft® Bulk Oil Distributor, or [www.fmcdealer.dealerconnection.com](http://www.fmcdealer.dealerconnection.com) for details.

## SAE 5W-30 F-150 Diesel Motor Oil



Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
XO-5W30-QFA	WSS-M2C214-B1	1 Qt.	1	12 (Case Qty.)	198812

- Motorcraft® SAE 5W-30 F-150 Diesel Motor Oil is a high-performance full synthetic diesel engine oil recommended by Ford Motor Company. It is particularly recommended for use in Ford F-150 equipped with a 3.0L diesel engine. It meets Ford specification WSS-M2C214-B1
- Motorcraft® SAE 5W-30 F-150 Diesel Motor Oil is a high-quality diesel engine oil formulated with synthetic base oils and unique additive technology. It satisfies the warranty requirements of Ford Motor Company as well as diesel engine manufacturers recommending a motor oil of this viscosity grade and performance. It also meets the requirements of API Service FA-4
- Motorcraft® SAE 5W-30 F-150 Diesel Motor Oil is a low viscosity oil to improve fuel economy and performance in the diesel F-150 and other diesel vehicles where an oil of this viscosity and quality is recommended. Formulated to provide excellent soot control, protection against wear, deposits, rust and corrosion, foaming, sludge formation, high temperature oxidation and thickening, as well as protecting exhaust after treatment systems such as particulate filters
- Motorcraft® SAE 5W-30 F-150 Diesel Motor Oil is recommended for use in diesel F-150 and Transit over a wide temperature range, from -20 °F (-29 °C) to over 100 °F (38 °C)
- **Use only when specified**
  - Do not use in gasoline engines equipped with catalysts
  - Do not use in vehicles equipped with 6.7L, 6.4L, 6.0L, 7.3L, 4.5L and 3.2L Power Stroke® Diesel engines. Use Motorcraft® Super Duty Diesel Motor oil meeting WSS-M2C171-F1 in these applications
- Refer to the Motorcraft® SAE 5W-30 F-150 Diesel Motor Oil product data sheet at [www.fcsdchemicalsandlubricants.com](http://www.fcsdchemicalsandlubricants.com)

## SAE 5W-30 Full Synthetic Motor Oil

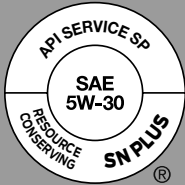


Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
XO-5W30-Q1FS	WSS-M2C961-A1	1 Qt.	1	12 (Case Qty.)	200010 / 508183
XO-5W30-DFS	WSS-M2C961-A1	55 U.S. gal.	1	N/A	200010 / 508183

- Motorcraft® SAE 5W-30 Full Synthetic Motor Oil is a premium-quality passenger car motor oil recommended by Ford Motor Company and meets all warranty requirements. It is API Certified for gasoline engine service ILSAC GF-6 and meets API SP/Resource Conserving and SN PLUS
- Motorcraft® SAE 5W-30 Full Synthetic Motor Oil is manufactured with high-viscosity index, premium-quality, synthetic base oils that provide good high temperature and low temperature performance. It helps minimize engine deposits and wear, protect against high-temperature oxidation and turbocharger deposits, low-temperature gelling, rust corrosion and foaming. The friction-reducing technology in this motor oil provides superior wear protection and energy-conserving characteristics, which result in significant improvement in fuel economy when compared to SAE 10W-30 motor oils. This oil also meets WSS-M2C961-A1 and reduces oil derived low speed pre-ignition
- Motorcraft® SAE 5W-30 Full Synthetic Motor Oil is also formulated to meet General Motors vehicles' maintenance needs
- Refer to the Motorcraft® SAE 5W-30 Full Synthetic Motor Oil product data sheet at [www.fcsdchemicalsandlubricants.com](http://www.fcsdchemicalsandlubricants.com)

**Note:** SAE 5W-30 Full Synthetic Motor Oil is available in bulk quantities at substantial savings. Use of bulk oil products is environmentally proactive. Contact your FCSD Aftermarket Sales Manager or an approved Motorcraft® Bulk Oil Distributor, or [www.fmcdealer.dealerconnection.com](http://www.fmcdealer.dealerconnection.com) for details.

## SAE 5W-30 Synthetic Blend Motor Oil



Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
XO-5W30-Q1SP	WSS-M2C961-A1	1 Qt.	1	12 (Case Qty.)	202189 / 502970
XO-5W30-5Q3SP	WSS-M2C961-A1	5 Qt.	1	3 (Case Qty.)	202189 / 502970
XO-5W30-DSP	WSS-M2C961-A1	55 U.S. gal.	1	N/A	202189 / 502970

- Motorcraft® SAE 5W-30 Synthetic Blend Motor Oil is a premium-quality passenger car motor oil recommended by Ford Motor Company and meets all warranty requirements. It is API Certified for gasoline engine service ILSAC GF-6 and meets API SP/Resource Conserving and SN PLUS
- Motorcraft® SAE 5W-30 Synthetic Blend Motor Oil is manufactured with high-viscosity index, premium-quality, synthetic/hydroprocessed base oils and specially designed performance additives, which provides improved protection against engine wear, and deposits, oil thickening and oil derived low speed pre-ignition, while continuing to prevent turbocharger deposits, low-temperature gelling, rust, corrosion and foaming. The friction-reducing technology in this motor oil provides superior wear protection and energy-conserving characteristics, which result in significant improvement in fuel economy when compared to SAE 10W-30 motor oils. This oil also meets WSS-M2C961-A1
- Refer to the Motorcraft® SAE 5W-30 Synthetic Blend Motor Oil product data sheet at [www.fcsdchemicalsandlubricants.com](http://www.fcsdchemicalsandlubricants.com)

**Note:** SAE 5W-30 Synthetic Blend Motor Oil is available in bulk quantities at substantial savings. Use of bulk oil products is environmentally proactive. Contact your FCSD Aftermarket Sales Manager or an approved Motorcraft® Bulk Oil Distributor, or [www.fmcdealer.dealerconnection.com](http://www.fmcdealer.dealerconnection.com) for details.

## SAE 5W-40 Full Synthetic Diesel Motor Oil



Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
XO-5W40-QSD	WSS-M2C171-F1	1 Qt.	1	12 (Case Qty.)	198811
XO-5W40-5Q3SD	WSS-M2C171-F1	5 Qt.	1	3 (Case Qty.)	198811
XO-5W40-DSD	WSS-M2C171-F1	55 U.S. gal.	1	N/A	198811

- Motorcraft® SAE 5W-40 Full Synthetic Diesel Motor Oil is a high-performance light- and heavy-duty diesel engine oil recommended by Ford Motor Company. It is particularly recommended for use in Ford vehicles equipped with Power Stroke® diesel engines as in truck, bus, construction and other heavy-duty diesel engine applications, as well as the smaller Ford diesel engines. It meets Ford WSS-M2C171-F1, required for use in Power Stroke® Diesel engines designed to meet 2017 on-highway exhaust emission standards and requiring ultralow sulfur diesel fuel, as well as meeting the requirements for previous model year diesel engines
- Motorcraft® SAE 5W-40 Full Synthetic Diesel Motor Oil is a high-quality diesel engine oil formulated with synthetic base oils and unique additive technology. It satisfies the warranty requirements of Ford Motor Company as well as most other domestic and import diesel engine manufacturers. It also meets the requirements of API Service CK-4
- Motorcraft® SAE 5W-40 Full Synthetic Diesel Motor Oil is formulated for improved oxidation protection and contains more than 1,000 ppm phosphorus to improve wear protection. Designed for low emission diesel engines providing excellent soot control, protection against wear, deposits, rust and corrosion, foaming, sludge formation, high temperature oxidation and thickening, as well as protecting exhaust after treatment systems such as particulate filters. It also provides excellent performance in older-generation diesel engines operating on high-sulfur fuel
- Motorcraft® SAE 5W-40 Full Synthetic Diesel Motor Oil can be used in older engines where the manufacturer recommended API Categories CD, CF-4, CG-4, CH-4, CI-4, CI-4 plus and CJ-4
- Motorcraft® SAE 5W-40 Full Synthetic Diesel Motor Oil is recommended for use in all North American Ford diesel engines over a wide temperature range, from -20 °F (-29 °C) to over 100 °F (38 °C)
- Do not use in gasoline engines equipped with catalysts
- Refer to the SAE 5W-40 Full Synthetic Diesel Motor Oil product data sheet at [www.fcsdchemicalsandlubricants.com](http://www.fcsdchemicalsandlubricants.com)

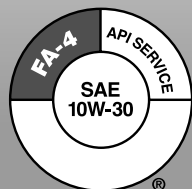
## SAE 5W-50 Full Synthetic Motor Oil



Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
XO-5W50-QGT	WSS-M2C931-C	1 Qt.	12 (Case Qty.)	N/A	192213

- Motorcraft® SAE 5W-50 Full Synthetic Motor Oil is recommended by Ford Motor Company for use in the Ford GT, Shelby GT-500, GT-350, Boss 302, Focus RS and Ford GT Supercar
- It is manufactured with high viscosity index, premium-quality synthetic base oils and performance additives to provide wear and oxidation protection under severe operating conditions. It is resistant to deposit formation, including supercharged and turbocharged applications. It provides quick flow to engine parts during start-up and lubricates effectively over a wide temperature range
- This oil is compatible with other synthetic and petroleum-based formulations
- Refer to the SAE 5W-50 Full Synthetic Motor Oil product data sheet at [www.fcsdchemicalsandlubricants.com](http://www.fcsdchemicalsandlubricants.com)

## SAE 10W-30 F-150 Diesel Motor Oil



Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
XO-10W30-QFA	WSS-M2C214-B1	1 Qt.	1	12 (Case Qty.)	199354

- Motorcraft® SAE 10W-30 F-150 Diesel Motor Oil is a high-performance diesel engine oil recommended by Ford Motor Company. It is particularly recommended for use in Ford F-150 equipped with a 3.0L diesel engine. It meets Ford specification WSS-M2C214-B1
- Motorcraft® SAE 10W-30 F-150 Diesel Motor Oil is a high-quality diesel engine oil formulated with hydrotreated base oils and unique additive technology. It satisfies the warranty requirements of Ford Motor Company as well as diesel engine manufacturers recommending a motor oil of this viscosity grade and performance. It also meets the requirements of API Service FA-4
- Motorcraft® SAE 10W-30 F-150 Diesel Motor Oil is a low viscosity oil to improve fuel economy and performance in the diesel F-150 and other diesel vehicles where an oil of this viscosity and quality is recommended. Formulated to provide excellent soot control, protection against wear, deposits, rust and corrosion, foaming, sludge formation, high temperature oxidation and thickening, as well as protecting exhaust after treatment systems such as particulate filters
- Motorcraft® SAE 10W-30 F-150 Diesel Motor Oil is recommended for use in diesel F-150 and Transit over a wide temperature range, from 0 °F (-18 °C) to over 100 °F (38 °C)
- **Use only when specified**
  - Do not use in gasoline engines equipped with catalysts
  - Do not use in vehicles equipped with 6.7L, 6.4L, 6.0L, 7.3L, 4.5L and 3.2L Power Stroke® Diesel engines. Use Motorcraft® Super Duty Diesel Motor oil meeting WSS-M2C171-F1 in these applications
- Refer to the Motorcraft® SAE 10W-30 F-150 Diesel Motor Oil product data sheet at [www.fcsdchemicalsandlubricants.com](http://www.fcsdchemicalsandlubricants.com)



## SAE 10W-30 Super Duty Diesel Motor Oil




Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS/ FIR Number
XO-10W30-QSDF	WSS-M2C171-F1	1 Qt.	1	12 (Case Qty.)	198094
XO-10W30-DSD	WSS-M2C171-F1	55 U.S. gal.	1	N/A	198094
XO-10W30-5Q3SD	WSS-M2C171-F1	5 Qt.	1	3 (Case Qty.)	198094



- Motorcraft® SAE 10W-30 Super Duty Diesel Motor Oil is a high-quality light- and heavy-duty diesel engine oil recommended by Ford Motor Company. It is particularly recommended for use in Ford vehicles equipped with Power Stroke® Diesel engines, as well as in other diesel engine applications where the manufacturer recommends an oil of this viscosity grade and quality. It meets Ford WSS-M2C171-F1, required for use in Power Stroke® Diesel engines designed to meet 2017 on-highway exhaust emission standards and requiring ultralow sulfur diesel fuel as well as meeting the requirements for previous model year diesel engines
- Motorcraft® SAE 10W-30 Super Duty Diesel Motor Oil is a high-quality diesel engine oil formulated with premium hydroprocessed base oils and unique additive technology. It satisfies the warranty requirements of Ford Motor Company, as well as most other domestic and import diesel engine manufacturers. It meets the requirements of Cummins CES 20086, Detroit Diesel 93K222, Volvo VDS-4.5, Mack EOS-4.5 and API Service CK-4
- Motorcraft® SAE 10W-30 Super Duty Diesel Motor Oil is formulated for improved oxidation protection and contains more than 1000 ppm phosphorus to improve wear protection. Designed for low emission diesel engines providing excellent soot control, protection against wear, deposits, rust and corrosion, foaming, sludge formation, high temperature oxidation and thickening, as well as protecting exhaust aftertreatment systems such as particulate filters. It also provides excellent performance in older-generation diesel engines operating on high-sulfur fuel
- Motorcraft® SAE 10W-30 Super Duty Diesel Motor Oil is recommended for use in 7.3L, 6.4L and 6.0L Power Stroke® diesel engines from 0 °F (-18 °C) to 50 °F (10 °C) and 6.7L Power Stroke® diesel engines above 0 °F (-18 °C)
- Do not use in gasoline engines equipped with catalyts
- Refer to the Motorcraft® SAE 10W-30 Super Duty Diesel Motor Oil product data sheet at [www.fcscdchemicalsandlubricants.com](http://www.fcscdchemicalsandlubricants.com)

**Note:** SAE 10W-30 Super Duty Diesel Motor Oil is available in bulk quantities at substantial savings. Use of bulk oil products is environmentally proactive. Contact your FCSD Aftermarket Sales Manager or an approved Motorcraft® Bulk Oil Distributor, or [www.fmcdealer.dealerconnection.com](http://www.fmcdealer.dealerconnection.com) for details.



## SAE 10W-30 Synthetic Blend Motor Oil


	Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
	XO-10W30-Q1SP	GF-6	1 Qt.	1	12 (Case Qty.)	502970
	XO-10W30-DSP	GF-6	55 U.S. gal.	1	1	502970

- Motorcraft® SAE 10W-30 Synthetic Blend Motor Oil is a premium-quality passenger car motor oil recommended by Ford Motor Company where use of this viscosity grade is recommended. It is API Certified for gasoline engine service ILSAC GF-6 and meets API SP/Resource Conserving and SN PLUS
- Motorcraft® SAE 10W-30 Synthetic Blend Motor Oil is manufactured with high-viscosity index, premium-quality, synthetic/hydroprocessed base oils and specially designed performance additives, which provides improved protection against engine wear, and deposits, oil thickening and oil derived low speed pre-ignition, while continuing to prevent turbocharger deposits, low-temperature gelling, rust, corrosion and foaming. This oil also meets API SP/SN Plus, therefore it can reduce oil derived low speed pre-ignition
- Motorcraft® SAE 10W-30 Synthetic Blend Motor Oil is recommended for use in current and older domestic and import passenger cars, SUV's, light-duty trucks, minivans and with normally aspirated, turbocharged and supercharged gasoline engines where an oil of this viscosity and quality is recommended
- Refer to the Motorcraft® SAE 10W-30 Synthetic Blend Motor Oil product data sheet at [www.fcsdchemicalsandlubricants.com](http://www.fcsdchemicalsandlubricants.com)

**Note:** SAE 10W-30 Synthetic Blend Motor Oil is available in bulk quantities at substantial savings. Use of bulk oil products is environmentally proactive. Contact your FCSD Aftermarket Sales Manager or an approved Motorcraft® Bulk Oil Distributor, or [www.fmcdealer.dealerconnection.com](http://www.fmcdealer.dealerconnection.com) for details.

## SAE 10W-40 Premium Motor Oil

	Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
	XO-10W40-Q1P	API Service SP	1 Qt.	1	12 (Case Qty.)	202189

- Motorcraft® SAE 10W-40 Premium Motor Oil is a high-quality passenger car motor oil recommended by Ford Motor Company where use of this viscosity grade is recommended. It meets API Service Category SP
- Refer to the Motorcraft® SAE 10W-40 Premium Motor Oil product data sheet at [www.fcsdchemicalsandlubricants.com](http://www.fcsdchemicalsandlubricants.com)



## SAE 15W-40 Super Duty Diesel Motor Oil


Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS/ FIR Number
XO-15W40-QSDF	WSS-M2C171-F1	1 Qt.	1	12 (Case Qty.)	198094
XO-15W40-5Q3SD	WSS-M2C171-F1	5 Qt.	1	3 (Case Qty.)	198094
XO-15W40-DSD	WSS-M2C171-F1	55 U.S. gal.	1	N/A	198094




- Motorcraft® SAE 15W-40 Super Duty Diesel Motor Oil is a high-quality light and heavy-duty diesel engine oil recommended by Ford Motor Company. It is particularly recommended for use in Ford vehicles equipped with Power Stroke® Diesel engines, as well as in other diesel engine applications where the manufacturer recommends an oil of this viscosity grade and quality. It meets Ford WSS-M2C171-F1, required for use in Power Stroke® Diesel engines designed to meet 2017 on-highway exhaust emission standards and requiring ultralow sulfur diesel fuel as well as meeting the requirements for previous model year diesel engines
- Motorcraft® SAE 15W-40 Super Duty Diesel Motor Oil is a high-quality diesel engine oil formulated with premium hydroprocessed base oils and unique additive technology. It satisfies the warranty requirements of Ford Motor Company, as well as most other domestic and import diesel engine manufacturers. It meets the requirements of Cummins CES 20086, Detroit Diesel 93K222, Volvo VDS-4.5, Mack EOS-4.5 and API Service CK-4
- Motorcraft® SAE 15W-40 Super Duty Diesel Motor Oil is formulated for improved oxidation protection and contains more than 1000 ppm phosphorus to improve wear protection. Designed for, low emission diesel engines providing excellent soot control, protection against wear, deposits, rust and corrosion, foaming, sludge formation, high temperature oxidation and thickening, as well as protecting exhaust aftertreatment systems such as particulate filters. It also provides excellent performance in older-generation diesel engines operating on high-sulfur fuel
- Motorcraft® SAE 15W-40 Super Duty Diesel Motor Oil is recommended for use in 7.3L, 6.4L 6.0L and 6.7L Power Stroke® diesel engines above 20 °F (7 °C)
- Do not use in gasoline engines equipped with catalysts
- Refer to the Motorcraft® SAE 15W-40 Super Duty Motor Oil product data sheet at [www.fcsdchemicalsandlubricants.com](http://www.fcsdchemicalsandlubricants.com)

**Note:** SAE 15W-40 Super Duty Diesel Motor Oil is available in bulk quantities at substantial savings. Use of bulk oil products is environmentally proactive. Contact your FCSO Aftermarket Sales Manager or an approved Motorcraft® Bulk Oil Distributor, or [www.fmcdealer.dealerconnection.com](http://www.fmcdealer.dealerconnection.com) for details.


## Continuously Variable Chain Type Transmission Fluid

	Part Number	Specification Number	Size	Unit Pack	SDS / FIR Number
	XT-7-QCFT	WSS-M2C933-A	1 Qt.	12 (Case Qty.)	171931
<ul style="list-style-type: none"> <li>Motorcraft® Continuously Variable Chain Type Transmission Fluid is a premium-quality fluid recommended by Ford Motor Company for use in the CFT-30 transmission</li> <li>It provides optimal frictional characteristics for this type of transmission. It provides good low temperature fluidity, reduces wear and protects against sludge and varnish build-up</li> <li>This fluid should be used ONLY in the CFT-30 transmission</li> </ul> <p><b>Note:</b> Use of other fluids in the CFT-30 transmission may cause internal damage. It is dyed blue for ease of leak detection.</p>					

## Dual Clutch Transmission Fluid

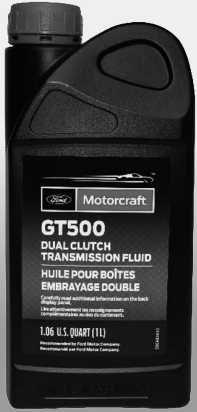
	Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
	XT-11-QDC	WSS-M2C200-D2	1 Qt.	1	12 (Case Qty.)	183455
<ul style="list-style-type: none"> <li>Motorcraft® Dual Clutch Transmission Fluid is specifically formulated for use in the DPS6 PowerShift twin dry-clutch transmission. It was designed as dual functioning fluid to protect gear, synchronizers and bearings, while also used to operate the transmission's shift mechanisms</li> <li>Motorcraft® Dual Clutch Transmission Fluid is manufactured with synthetic base oils and performance additives providing improved shifting at all ambient temperatures. Protects against wear and corrosion, while low viscosity improves fuel economy</li> <li>Use only in transmissions requiring a fluid meeting WSS-M2C200-D2</li> <li>Also used in manual transmissions, MT-82, MMT6, B6 and MTX-75</li> </ul>						

## Full Synthetic Manual Transmission Fluid

	Part Number	Specification Number	Size	Unit Pack	SDS / FIR Number
	XT-M5-QS	WSD-M2C200-C	1 Qt.	12 (Case Qty.)	175246
<ul style="list-style-type: none"> <li>Motorcraft® Full Synthetic Manual Transmission Fluid is a premium-quality SAE 75W-90 gear oil recommended by Ford Motor Company meeting warranty requirements. It is particularly recommended for IB5 and 1995-2011 MTX-75 transmissions, and is also recommended for older transmissions including rear wheel drive that recommend GL-3 and GL-4 type gear oils</li> <li>Motorcraft® Full Synthetic Manual Transmission Fluid is manufactured with synthetic base oils and performance additives providing improved gear shifting at all ambient temperatures. Its wear protection extends the life of synchronizers and bearings</li> <li>Due to its excellent thermal, oxidative and shear stability, this fluid meets Ford's fill-for-life requirements. Reduced friction and optimal lubrication reduces operating temperatures, increases component life and improves efficiency</li> <li>Used to service manual transmission that were previously serviced with XT-4-QGL, WSS-M2C203-A1</li> <li>Refer to the Motorcraft® Full Synthetic Manual Transmission Fluid product data sheet at <a href="http://www.fcsdchemicalsandlubricants.com">www.fcsdchemicalsandlubricants.com</a></li> </ul>					

## GT500 Dual Clutch Transmission Fluid


Part Number	Specification Number	Size	Unit Pack	SDS / FIR Number
XT-14-L	N/A	1 L	12 (Case Qty.)	199894



- Motorcraft® GT500 Dual Clutch Transmission Fluid is specifically formulated for use in the GT500 7-Speed Tremec Dual Clutch transmission and meets all powertrain warranty requirements
- Designed as a multi-function fluid to service the entire transmission; including all clutch, gear, and solenoid subsystems
- Motorcraft® GT500 Dual Clutch Transmission Fluid provides an outstanding balance of lubrication and friction-modifying properties for superior wear protection and superb shift performance under all conditions
- Use only in GT500 Dual Clutch Transmissions
- Do not use in 2007 – 2014 GT500 with TR6060 Manual Transmissions

## MERCON® LV Automatic Transmission Fluid


Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
XT-10-QLVC	MERCON® LV	1 Qt.	12 (Case Qty.)	N/A	179895
XT-10-5Q3LV	MERCON® LV	5 Qt.	1	3	179895
XT-10-DLV	MERCON® LV	55 U.S. gal.	1	N/A	179895




- Motorcraft® MERCON® LV is a premium-quality automatic transmission fluid recommended by Ford Motor Company for use in Ford, Lincoln and Mercury vehicles that require MERCON® LV type fluid. This product also provides excellent performance in electronically controlled automatic transmissions. Check Owner Guide and transmission fluid charts for application
- Motorcraft® MERCON® LV is manufactured with high-viscosity index, premium-quality, hydroprocessed base oils and specially designed performance additives, which provide excellent shifting characteristics at high and low ambient temperatures and guards against transmission shudder. This fluid has excellent thermal, oxidation and shear stability and good low temperature fluidity. It provides wear protection and inhibits the formation of gum, sludge, lacquer and foam. It also prevents against rust and corrosion. It is dyed red for ease of leak detection
- For use in all transfer cases
- For use in power steering systems built after 2012
- Do not use in applications where MERCON® ULV, MERCON® V, MERCON® SP (except TorqShift®), Continuously Variable Chain Type Transmission Fluid, Motorcraft® Premium Automatic Transmission Fluid, FNR5 Automatic Transmission Fluid or Type F Automatic Transmission Fluid is recommended, or in power take-off units
- Refer to the Motorcraft® MERCON® LV product data sheet at [www.fcsdchemicalsandlubricants.com](http://www.fcsdchemicalsandlubricants.com)

**Note:** MERCON® LV Automatic Transmission Fluid is available in bulk quantities at substantial savings. Use of bulk oil products is environmentally proactive. Contact your FCSD Aftermarket Sales Manager or an approved Motorcraft® Bulk Oil Distributor, or [www.fmcdealer.dealerconnection.com](http://www.fmcdealer.dealerconnection.com) for details.

## MERCON® SP Automatic Transmission Fluid

	Part Number	Specification Number	Size	Unit Pack	SDS / FIR Number
	XT-6-QSP	MERCON® SP	1 Qt.	12 (Case Qty.)	187660
<ul style="list-style-type: none"> <li>Motorcraft® MERCON® SP is a premium-quality fluid recommended by Ford Motor Company specifically for use in Ford, Lincoln and Mercury vehicles that require MERCON® SP type fluid. This product also provides excellent performance in electronically controlled automatic transmissions. Check Owner's Guide or Workshop Manual for correct applications</li> <li>Motorcraft® MERCON® SP is manufactured with premium base oils and specially designed performance additives, which provide excellent shifting characteristics at high and low ambient temperatures, excellent thermal and oxidation resistance. It provides wear protection and inhibits the formation of gum, sludge, lacquer and foam. It also provides protection against rust and corrosion. MERCON® SP is friction modified for smooth transmission operation while guarding against transmission shudder</li> <li>Do not use in transmissions requiring MERCON® ULV, MERCON® V, MERCON® LV, Continuously Variable Chain Type Transmission Fluid, Motorcraft® Premium Automatic Transmission Fluid, FNR5 Automatic Transmission Fluid, or Type F Fluid</li> <li>Refer to the Motorcraft® MERCON® SP product data sheet at <a href="http://www.fcscdchemicalsandlubricants.com">www.fcscdchemicalsandlubricants.com</a></li> </ul>					


## MERCON® ULV Automatic Transmission Fluid

	Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
	XT-12-QULV	MERCON® ULV	1 Qt.	1	12 (Case Qty.)	196825
<ul style="list-style-type: none"> <li>Motorcraft® MERCON® ULV is a premium-quality automatic transmission fluid recommended by Ford Motor Company for use in Ford F-150 and Raptor with the 10R80 automatic transmission. Check Owner Guide, workshop manual and transmission fluid charts for application information</li> <li>Motorcraft® MERCON® ULV is an ultra-low viscosity fluid manufactured with high-viscosity index, premium-quality, hydroprocessed base oils and specially designed performance additives. For transmissions designed for this fluid, it provides improved fuel economy, excellent shifting characteristics at high and low ambient temperatures and guards against transmission shudder. This fluid has excellent thermal and oxidation performance. It has improved shear stability, for less viscosity loss for the life of the fluid, and improved low temperature fluidity, providing proper transmission function at all temperatures. It provides wear protection and inhibits the formation of gum, sludge, lacquer and foam. It also prevents against rust and corrosion. It is dyed red for ease of leak detection</li> <li>Due to its ultra-low viscosity DO NOT USE in applications specifying MERCON® V, MERCON® SP, MERCON® LV, Premium Automatic Transmission Fluid (WSS-M2C924-A), CVT Transmission Fluid (WSS-M2C933-A), FNR5 Automatic Transmissions Fluid (Mazda M5), Dual Clutch Transmission Fluid (WSS-M2C200-D2) or Type F (ESW-M2C33-F)</li> <li>Refer to the Motorcraft® MERCON® ULV product data sheet at <a href="http://www.fcscdchemicalsandlubricants.com">www.fcscdchemicalsandlubricants.com</a></li> </ul>						

## MERCON® V Automatic Transmission and Power Steering Fluid

Transmission Fluid


Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
XT-5-QMC	MERCON® V	1 Qt.	12 (Case Qty.)	N/A	184629
XT-5-5Q3M	MERCON® V	5 Qt.	1	3	184629
XT-5-DMC	MERCON® V	55 U.S. gal.	1	N/A	184629



- Motorcraft® MERCON® V is a premium-quality automatic transmission fluid recommended by Ford Motor Company for use in Ford, Lincoln and Mercury vehicles that require either MERCON® V or MERCON® type fluid. This product also provides excellent performance in electronically controlled automatic transmissions
- Motorcraft® MERCON® V is manufactured with high-viscosity index, premium-quality, hydroprocessed base oils and specially designed performance additives, which provide excellent shifting characteristics at high and low ambient temperatures, excellent thermal and oxidation resistance and good low temperature fluidity. It provides wear protection and inhibits the formation of gum, sludge, lacquer and foam. It also provides protection against rust and corrosion. It is dyed red for ease of leak detection
- Do not use in applications where MERCON® ULV, MERCON® SP, MERCON® LV, Continuously Variable Chain Type Transmission Fluid, Motorcraft® Premium Automatic Transmission Fluid, FNR5 Automatic Transmission Fluid or Type F Automatic Transmission Fluid is recommended
- Use in automatic and manual transmissions and power steering systems previously serviced with MERCON. Also use in FNR5 transmissions previously serviced with FNR5 Automatic Transmission Fluid (XT-9-QMM5)
- Do not use in transfer cases where MERCON® ATF was previously recommended
- Motorcraft® MERCON® V is suitable for use as a hydraulic oil in a wide variety of industrial applications that call for an ISO 46 or SAE 20W viscosity grade hydraulic oil
- Refer to the Motorcraft® MERCON® V product data sheet at [www.fcsdchemicalsandlubricants.com](http://www.fcsdchemicalsandlubricants.com)


## Premium Automatic Transmission Fluid

Part Number	Specification Number	Size	Unit Pack	SDS / FIR Number
XT-8-QAW	WSS-M2C924-A	1 Qt.	12 (Case Qty.)	171914




- Motorcraft® Premium Automatic Transmission Fluid is a premium-quality fluid recommended by Ford Motor Company for use in the AW F21 6-speed transmission
- It has unique frictional characteristics specific to this transmission
- It has excellent high temperature thermal and oxidative stability, and protects against transmission shudder
- Do not use for applications recommending MERCON® ULV, MERCON® LV, MERCON® V, MERCON® SP, Type F fluid, Continuously Variable Chain Type Transmission Fluid or FNR5 Automatic Transmission Fluid

## Synthetic Blend MERCON® V Automatic Transmission and Power Steering Fluid

Part Number	Specification Number	Size	Unit Pack	SDS / FIR Number
XT-5-QSM	MERCON® V	1 Qt.	12 (Case Qty.)	189196
 <ul style="list-style-type: none"> <li>Motorcraft® Synthetic Blend MERCON® V Automatic Transmission and Power Steering Fluid is a high-quality automatic transmission fluid recommended by Ford Motor Company. It was developed for use in the newer electronically controlled automatic transmissions built after 1989 and power steering systems built after 1998 requiring MERCON® V or MERCON® fluid</li> <li>Motorcraft® Synthetic Blend MERCON® V Automatic Transmission and Power Steering Fluid is formulated with high-viscosity index, premium-quality, synthetic/hydroprocessed base oils and specially designed performance additives. It is specifically formulated to provide improved shifting characteristics at high and low ambient temperatures, excellent thermal and oxidation resistance, and good low temperature fluidity. It provides wear protection and inhibits the formation of gum, sludge, lacquer, and foam. It also provides protection against rust and corrosion</li> <li>It is especially effective in applications where high temperatures are a concern. Due to its excellent thermal, oxidative, and shear stability, this fluid is required in manual transmission applications such as Mustang with G1 manual transmissions and F/E series with TR 3650 and ZF S5-47 manual transmissions</li> <li>Formulated for power steering systems requiring MERCON® V or MERCON® fluid to provide excellent low temperature fluidity as well as improved high temperature thermal stability for use in extreme conditions in all seasons</li> <li>Do not use in applications where MERCON® ULV, MERCON® LV, MERCON® SP, Continuously Variable Chain Type Transmission Fluid, Motorcraft® Premium Automatic Transmission Fluid or Type F Automatic Transmission Fluid is recommended</li> </ul>				

## Type F Automatic Transmission Fluid and Power Steering Fluid

Part Number	Specification Number	Size	Unit Pack	SDS / FIR Number
XT-1-Q1F	ESW-M2C33-F	1 Qt.	12 (Case Qty.)	200385
 <ul style="list-style-type: none"> <li>Motorcraft® ATF Type F is recommended by Ford Motor Company. It is a high-static friction fluid developed for Ford automatic transmissions manufactured during the 1970's and earlier. The special frictional properties of Motorcraft® ATF Type F ensure proper shifting in Ford transmissions that require a fluid meeting ESW-M2C33-F. It is also recommended for power steering systems in a wide variety of Ford Vehicles calling for a Type F fluid, built prior to Model Years 1996-1998. Check Owner Guide for proper application</li> <li>Motorcraft® ATF Type F resists foaming and protects against rust, corrosion, wear and deposits. Its low viscosity makes it suitable not only for Ford power steering units, but also as a hydrostatic drive fluid for many farm implements and certain industrial equipment applications</li> <li>Motorcraft® ATF Type F should not be used in newer transmissions requiring MERCON® ULV, MERCON® SP, MERCON® LV, MERCON® LV, Continuously Variable Chain Type Transmission Fluid, Motorcraft® Premium Automatic Transmission Fluid or FNR5 Automatic Transmission Fluid</li> </ul>				

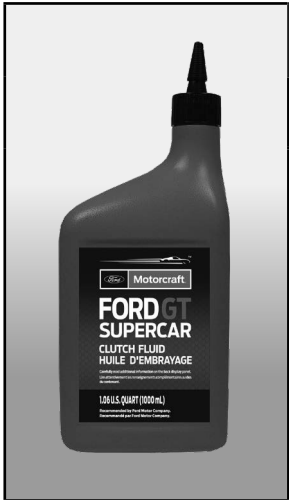
## Additive Friction Modifier

Transaxle Fluid



Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
XL-3	EST-M2C118-A	4 fluid oz.	1	12	135454
<ul style="list-style-type: none"> <li>For use on certain limited-slip differentials to reduce chatter and hypoid gear noise levels</li> <li>Use according to Owner Guide recommendations</li> <li>Tapered neck applicator for easy use</li> </ul>					

## Ford GT Supercar Clutch Fluid



Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
XL-20	N/A	1 L	1	12 (Case Qty.)	197127
<ul style="list-style-type: none"> <li>Premium quality hydraulic fluid recommended by Ford Motor Company for use in the dual clutch shifting system of the 2017-2020 Ford GT Supercar 7-Speed Dual Clutch Transaxle</li> <li>Functions as a lubricant for the wet clutch and a hydraulic fluid for actuating the dual clutch shifting mechanism</li> <li>Provides excellent hydraulic operation and proper clutch friction for accurate gear shifting under all conditions</li> <li>DO NOT use in the gearbox of the Ford GT Supercar 7-Speed Dual Clutch Transaxle</li> </ul>					


## Gear Oil Additive



Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
XL-19	N/A	1.86 fluid oz.	1	1	196504
<ul style="list-style-type: none"> <li>For use on 2017MY-2018MY Ford Focus RS and 2017MY-current Lincoln Continental/MKZ (3.0L EcoBoost engine) torque vectoring rear drive units</li> </ul>					




## SAE 75W Disconnect Rear Drive Unit Fluid

	Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
		XY-75W-QL	N/A	1 Qt.	1	12 (Case Qty.)
<ul style="list-style-type: none"> <li>Motorcraft® SAE 75W Disconnect Rear Drive Unit Fluid is specifically formulated for Ford disconnect rear drive units with a low offset hypoid gear</li> <li>Developed with a lower viscosity to improve axle efficiency and fuel economy</li> <li>Motorcraft® SAE 75W Disconnect Rear Drive Unit Fluid is formulated with synthetic base stocks, friction modifiers, antiwear and extreme pressure additives to provide gear protection and smooth clutch operation</li> <li>Use only in Ford Disconnect Rear Drive Units</li> <li>Do not use in high-offset hypoid gear axles where SAE 75W-85, 75W-90, 80W-90 or 75W-140 is recommended</li> <li>Refer to the Motorcraft® SAE 75W Disconnect Rear Drive Unit Fluid product data sheet at <a href="http://www.fcsdchemicalsandlubricants.com">www.fcsdchemicalsandlubricants.com</a></li> </ul>						


Transaxle Fluid

## SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant


	Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
		XY-75W85-QL	WSS-M2C942-A	1 Qt.	1	12 (Case Qty.)
<ul style="list-style-type: none"> <li>Motorcraft® SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant is an excellent multi-purpose extreme pressure lubricant recommended by Ford Motor Company meeting warranty requirements. It is recommended for conventional and limited-slip differentials of vehicles which specify a fluid meeting WSS-M2C942-A</li> <li>Motorcraft® SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant is manufactured using high-quality synthetic oils and performance additives to provide improved high-temperature thermal and oxidative stability. This product has been formulated to improve fuel economy and helps to reduce operating temperatures. It has enhanced wear protection for hypoid gears, excellent shear stability and protects from rust and corrosion</li> <li>Do not use in axles where SAE 75W-140 is recommended</li> <li>Refer to the Motorcraft® SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant product data sheet at <a href="http://www.fcsdchemicalsandlubricants.com">www.fcsdchemicalsandlubricants.com</a></li> </ul>						
<p><b>Note:</b> For a complete drain and refill, limited-slip axles require addition of Friction Modifier, Part Number XL-3 meeting Ford specification EST-M2C118-A. Refer to Workshop Manual or Owner's Guide. For a complete drain and refill, Torque Vectoring RDU requires addition of Torque Vectoring RDU Gear Oil Additive, Number XL-19.</p>						

## SAE 75W-90 Ford GT Supercar Transaxle Lubricant


Transaxle Fluid

	Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
	XT-75W90-QSC	GL-5	1 Qt.	1	12 (Case Qty.)	197277
<ul style="list-style-type: none"> <li>• Premium quality gear lubricant recommended by Ford Motor Company to lubricate the gearset of the 2017-2020 Ford GT Supercar 7 Speed Dual Clutch Transaxle</li> <li>• Provides protection and lubrication for the transmission gears, synchronizers and a hypoid gear in the 7-Speed Dual Clutch Transaxle</li> <li>• Provides excellent shifting and synchronizer performance under all conditions</li> <li>• DO NOT use in the clutch fluid reservoir for the shifting system of the Ford GT Supercar 7-Speed Dual Clutch Transaxle</li> </ul>						

## SAE 75W-90 Premium Synthetic Transaxle Lubricant

	Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
	XT-75W90-QGT	GL-5	1 Qt.	1	12 (Case Qty.)	171872
<ul style="list-style-type: none"> <li>• Motorcraft® SAE 75W-90 Premium Synthetic Transaxle Lubricant is a premium-quality lubricant recommended by Ford Motor Company for use in the 2005-2006 Ford GT transaxle</li> <li>• It provides excellent gear change and synchromesh performance even at low temperatures</li> <li>• It provides complete lubrication for reduced wear</li> </ul>						

## SAE 75W-140 Synthetic Rear Axle Lubricant




Part Number	Specification Number	Size	Unit Pack	SDS / FIR Number
XY-75W140-QL	WSL-M2C192-A and GL-5	1 Qt.	12 (Case Qty.)	048396
XY-75W140-KL	WSL-M2C192-A and GL-5	120 lbs. (16 U.S. gal.)	1	048396

- Motorcraft® SAE 75W-140 Synthetic Rear Axle Lubricant is an excellent multi-purpose extreme pressure lubricant recommended by Ford Motor Company meeting warranty requirements. It is recommended for conventional and limited-slip differentials of passenger cars, light trucks, vans and buses that operated under mild to severe service conditions
- Motorcraft® SAE 75W-140 Synthetic Rear Axle Lubricant is manufactured using high-quality synthetic base oils and performance additives to provide improved high-temperature thermal and oxidative stability. It helps to reduce operating temperatures. It has enhanced wear protection for hypoid gears, excellent shear stability and protects from rust and corrosion. This product meets all fill-for-life requirements of Ford Motor Company
- Refer to the Motorcraft® SAE 75W-140 Synthetic Rear Axle Lubricant product data sheet at [www.fcsdchemicalsandlubricants.com](http://www.fcsdchemicalsandlubricants.com)

**Note:** For a complete drain and refill, some limited-slip axles require addition of Friction Modifier, Part Number XL-3, meeting Ford specification EST-M2C118-A. Refer to Workshop Manual or Owner's Guide.

**Transaxle Fluid**

## SAE 80W-90 Premium Rear Axle Lubricant




Part Number	Specification Number	Size	Unit Pack	SDS / FIR Number
XY-80W90-QL	WSP-M2C197-A, GL-5, MT-1	1 Qt.	12 (Case Qty.)	173576
XY-80W90-KL	WSP-M2C197-A, GL-5, MT-1	120 lbs. (16 U.S. gal.)	1	173576

- Motorcraft® SAE 80W-90 Premium Rear Axle Lubricant is an excellent multi-purpose extreme pressure lubricant recommended by Ford Motor Company meeting warranty requirements. It is recommended for conventional and limited-slip differentials of passenger cars, light trucks, vans and buses that operate under mild to severe service conditions
- Motorcraft® SAE 80W-90 Premium Rear Axle Lubricant is manufactured using premium quality hydroprocessed base oils and performance additives to provide thermal and oxidative stability and protection against gear wear, rust and corrosion. This product meets the requirements of MIL-PRF-2105E & Mack GO-J


**Note:** For a complete drain and refill, some limited-slip axles require addition of Friction Modifier, Part Number XL-3, meeting Ford specification EST-M2C118-A. Refer to Workshop Manual or Owner's Guide.

## Constant Velocity Joint Grease (High Temp)


	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	XG-5	WSS-MIC258-A1	90 g	1	173532
<ul style="list-style-type: none"> <li>• High-temperature grease required for service of constant velocity joints</li> <li>• Designed to reduce shudder</li> </ul>					

Greases


## Electrical Grease

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	XG-12	WSB-MIC239-A	3 oz.	4	184665
<ul style="list-style-type: none"> <li>• Lubricates and protects electrical connectors</li> <li>• Provides a non-corrosive film for electrical switches and contacts</li> <li>• Protects connector metals from oxidation and corrosion</li> </ul>					

## High Temperature 4X4 Front Axle and Wheel Bearing Grease


	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	XG-11	WSS-MIC267-A1	14 oz.	18	184498
<ul style="list-style-type: none"> <li>• Required lubricant for 4X4 Ford Light Truck front axle spindle bearings, wheel bearings and U-joints</li> <li>• Lithium complex, high-temperature grease</li> <li>• 572 °F (300 °C) dropping point – will not run off at high temperatures</li> <li>• NLGI grade #2</li> </ul>					

## High Temperature Nickel Anti-Seize Lubricant


	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	XL-2	N/A	8 oz.	1	195238
<ul style="list-style-type: none"> <li>• Provides high temperature lubrication up to 2552 °F (1400 °C)</li> <li>• Prevents seizing and galling of metal parts</li> <li>• Guards against rust and corrosion caused by chemicals and weathering</li> <li>• For use when replacing oxygen sensors</li> </ul>					

Greases

## HVAC Duct Component Grease


	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	XG-17	N/A	3 oz.	1	202457
<ul style="list-style-type: none"> <li>• Lubricates HVAC blend doors, cams, and actuators</li> <li>• Reduces torque efforts, squeaks, and rattles</li> </ul>					

## Low Temperature Grease


	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	XG-16	N/A	3 oz.	1	200973
<ul style="list-style-type: none"> <li>• Used to lubricate plastic gears, bearings and cams, as well as metal and rubber parts</li> <li>• Provides low temperature lubrication down to -100 °F (-73 °C)</li> </ul>					

## Mini-Vent Window Lube


Greases

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	XL-10	ESF-M2C113-A	4 fluid oz.	4	153958
<ul style="list-style-type: none"> <li>Durable silicone-based lubricant specially formulated for reducing sliding efforts on mini-vent windows</li> </ul>					

## Multi-Purpose Grease

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	XL-5-A	ESB-M1C93-B	11.5 oz. aerosol	12	202564
<ul style="list-style-type: none"> <li>Outstanding general-purpose grease for use on metal surfaces such as door hinges, seat tracks and deck lid hinges</li> <li>Continues to lubricate long after application</li> <li>Not affected by wide temperature operating ranges</li> <li>Amber color</li> </ul>					

## Penetrating and Lock Lubricant

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	XL-1	N/A	12 oz. aerosol	12	191938
<ul style="list-style-type: none"> <li>Displaces moisture</li> <li>Helps free rusty/seized parts</li> <li>Helps protect metal parts against corrosion</li> </ul>					

## Premium Long-Life Grease

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	XG-1-E1	ESA-MIC75-B	14 oz.	40	046977
<ul style="list-style-type: none"> <li>• Use on chassis, ball joints, U-joints, wheel bearings, brake self adjusting screws and steering gear</li> <li>• Resists washout and component wear under extreme pressure</li> <li>• Fights rust, abrasion and high-temperature breakdown</li> <li>• Contains high-density polyethylene and molybdenum disulfide</li> <li>• 275 °F (135 °C) upper temperature limit; 350 °F (177 °C) dropping point</li> <li>• NLGI Grade #2</li> </ul>					

Greases


## PTFE Lubricant

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	XG-8-A	ESB-MIC111-B	1 lb.	1	173865
	XG-8	ESB-MIC111-B	3 oz. tube	1	173865
<ul style="list-style-type: none"> <li>• For use with driveshaft slip yokes; especially where grunt-type noise is experienced</li> <li>• Useful in eliminating squeaks between plastic parts</li> <li>• For use on speedometer cables; stops squeaking, sticking and binding</li> </ul>					

## Silicone Brake Caliper Grease and Dielectric Compound


	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	XG-3-A	ESE-MIC171-A	3 oz.	12	190984
<p><b>Brake Application</b></p> <ul style="list-style-type: none"> <li>• Lubricates disc brake caliper slide pins</li> <li>• High resistance to water and heat</li> <li>• Compatible with EPDM rubber</li> </ul> <p><b>Ignition System Applications</b></p> <ul style="list-style-type: none"> <li>• Provides high voltage seal to secondary ignition wires</li> <li>• Suppresses voltage leaks by coating inner distributor cap surface</li> </ul>					

## Silicone Spray Lubricant

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	XL-6	ESR-M13P4-A	12.25 oz. aerosol	12	177167
<ul style="list-style-type: none"> <li>• Lubricates window channels and rubber hood strips</li> <li>• Helps prevent battery terminal corrosion</li> <li>• High silicone content</li> <li>• Lubricates and helps prolong the life of rubber parts</li> </ul>					

Greases

## Synthetic Supercharger Fluid

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	XL-4	ESE-M99C115-A	4 fluid oz.	12	042166
<ul style="list-style-type: none"> <li>• Required for top-off of fluid level in superchargers on: <ul style="list-style-type: none"> <li>- 89-96 3.8L Thunderbird SC</li> <li>- 99-03 5.4L Lightning F-150</li> <li>- 02-03 5.4L Harley Davidson F-150</li> <li>- 03-04 4.6L Mustang Cobra</li> <li>- 05-06 5.4L GT</li> <li>- 07-08 5.4L Shelby GT 500</li> </ul> </li> <li>• Tapered neck applicator bottle for easy use</li> </ul>					




## Power Steering Fluid

Part Number	Specification Number	Size	Unit Pack	SDS / FIR Number
XL-14	MERCON® V	12 fluid oz.	1	184629
<ul style="list-style-type: none"> <li>• Recommended for all power steering systems which require MERCON® V fluid</li> <li>• Recommended for all power steering systems previously serviced with MERCON®</li> </ul> <div data-bbox="441 548 1438 653" style="border: 1px solid black; padding: 5px;"> <p><b>Note:</b> All power steering systems built between 1998 and 2012 require the use of MERCON® V fluid. Power steering systems built after 2012 require MERCON LV . Refer to Workshop Manual or Owner's Guide.</p> </div>				




## A/C Cooling Coil Coating


	Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
	YN-29	N/A	4 fluid oz.	1	2	166422
<ul style="list-style-type: none"> <li>• Combination acrylic resin and powerful antimicrobial formula eliminates A/C musty odor-causing conditions</li> <li>• For use in most Ford, Lincoln and Mercury vehicles – refer to the vehicle's Workshop Manual or the Technical Service Bulletin for applicability and instructions</li> <li>• One application provides protection for 2 - 3 years</li> <li>• Use with the A/C Odor Remover Flexible Applicator, Rotunda Part Number 258-62644</li> </ul>						

## A/C System Flushing Solvent


A/C & Engine Cooling Products

	Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
	YN-23	N/A	1 U.S. gal.	1	4	173628
<ul style="list-style-type: none"> <li>• Use to purge the A/C system in the event of contamination</li> <li>• Only A/C flush approved for use in Ford Motor Company vehicles</li> <li>• Carefully follow all label directions</li> </ul>						

## Diesel Cooling System Additive

	Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
	VC-8	ESN-M99B169-A	16 fluid oz.	1	12	184845
<ul style="list-style-type: none"> <li>• <b>Use only when specified</b></li> <li>- In all diesel engine cooling systems equipped with fluorescent green-colored Motorcraft® Premium Antifreeze/Coolant meeting Ford Specification ESE-M97B44-A</li> <li>- In all diesel engine cooling systems equipped with yellow-colored Motorcraft® Gold Antifreeze/Coolant meeting Ford Specification WSS-M97B51-A1</li> <li>• Designed to replace additives depleted between coolant change-outs</li> <li>• Now dyed yellow to eliminate engine coolant color change when mixing</li> </ul>						


## Electric A/C Compressor Oil

	Part Number	Specification Number	Size	Unit Pack	SDS / FIR Number
		YN-32	N/A	2 fluid oz.	1

- For use only in the following Ford, Lincoln, and Mercury vehicles equipped with high-voltage battery electric A/C compressors and R-134a refrigerant:
  - 1999 – 2002 Ford Ranger Electric
  - 2010 – 2011 Mercury Mariner Hybrid
  - 2010 – 2011 Mercury Milan Hybrid
  - 2010 – 2012 Ford Escape Hybrid
  - 2010 – 2016 Ford Fusion Hybrid
  - 2011 – 2016 Lincoln MKZ Hybrid
  - 2012 – 2016 Focus Electric
  - 2013 – 2018 Ford C-MAX Hybrid
- Use to replace contaminated compressor oil and compressor oil lost by leaks or replacement of an A/C system part
- Use only when specified — do not use as a substitute for any other A/C compressor oil**


A/C & Engine Cooling Products

## Engine Cooling System Iron Cleaner

	Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
		VC-9	N/A	1 Qt.	1	12

- Use only when specified.** Refer to the applicable Workshop Manual or Technical Service Bulletin for application, usage, and other important information
- Unless specified otherwise, do not use this product to flush cooling systems where the cylinder block is aluminum. **Use Motorcraft® Premium Cooling System Flush, VC-1**
- Contains cleaners that effectively remove rust and polymers that disperse sludges
- Is non-aggressive to both ferrous and non-ferrous metals, including mild steel, copper, aluminum, cast iron, brass, bronze, and stainless steels
- Provides a passive iron surface after cleaning to avoid flash rusting


## Gold Concentrated Antifreeze/Coolant

	Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS/ FIR Number
	VC-7-B	WSS-M97B51-A1	1 U.S. gal.	1	6	189062
	VC-7-D	WSS-M97B51-A1	55 U.S. gal.	1	N/A	189062

- Recommended by Ford Motor Company meeting warranty requirements
- Yellow-colored, longer-life, ethylene glycol-based antifreeze/coolant for use in gasoline and diesel engines, and electric motors
- Provides year-round antifreeze, anti-boil and corrosion protection
- A 50/50 mixture of this antifreeze/coolant and distilled water provides freeze protection down to -34 °F (-36.7 °C) and boiling protection up to 265 °F (129 °C)
- **Use only when specified**
  - Approved to Ford Specification WSS-M97B51-A1. Use when Ford Specification WSS-M97B51-A1 is specified
  - Do not mix different colors or types of antifreeze/coolant in your vehicle unless directed by the vehicle manufacturer to do so. It is important to use the correct antifreeze/coolant. Mixing of antifreeze/coolants or using an incorrect antifreeze/coolant may harm the engine (or electric motor) or cooling system components and may not be covered by the vehicle Warranty
- Meets or exceeds the requirements of WSS-M97B51-A1, ASTM D 3306, Chrysler MS-9769, Cummins 14603, and ASTM D 6210
- Contains a bittering agent


A/C & Engine Cooling Products

## Gold Prediluted Antifreeze/Coolant


	Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS/ FIR Number
	VC-7DIL-B	WSS-M97B51-A1	1 U.S. gal.	1	6	189065
	VC-7DIL-D	WSS-M97B51-A1	55 U.S. gal.	1	N/A	189065

- Recommended by Ford Motor Company meeting warranty requirements
- Yellow-colored, longer-life, ethylene glycol-based antifreeze/coolant for use in gasoline and diesel engines, and electric motors
- Provides year-round antifreeze, anti-boil and corrosion protection
- Ready-to-use. No need to add water. This 50/50 mixture of antifreeze/coolant and treated (purified) water provides freeze protection down to -34 °F (-36.7 °C) and boiling protection up to 265 °F (129 °C)
- **Use only when specified**
  - Approved to Ford Specification WSS-M97B51-A1. Use when Ford Specification WSS-M97B51-A1 is specified
  - Do not mix different colors or types of antifreeze/coolant in your vehicle unless directed by the vehicle manufacturer to do so. It is important to use the correct antifreeze/coolant. Mixing of antifreeze/coolants or using an incorrect antifreeze/coolant may harm the engine (or electric motor) or cooling system components and may not be covered by the vehicle Warranty
- Meets or exceeds the requirements of WSS-M97B51-A1, ASTM D 3306, Chrysler MS-9769, Cummins 14603, and ASTM D 6210
- Contains a bittering agent

## Heavy Truck PAG Refrigerant Compressor Oil


	Part Number	Specification Number	Size	Unit Pack	SDS / FIR Number
	YN-24	WST-MIC231-B2	7 fluid oz.	1	168868
<ul style="list-style-type: none"> <li>For use in heavy trucks equipped with R-134a refrigerant and Sanden A/C compressors, where SP-20 or SP-15 is specified</li> <li>High viscosity PAG lubricant</li> <li>Use to replace contaminated compressor oil and compressor oil lost by leaks or replacement of an A/C system part</li> <li><b>Use only when specified — do not use as a substitute for any other A/C compressor oil</b></li> </ul>					

## PAG Refrigerant Compressor Oil

	Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
	YN-12-D	WSH-MIC231-B	7 fluid oz.	1	12	173919
<ul style="list-style-type: none"> <li>Required in the majority of Ford, Lincoln, and Mercury vehicles equipped with conventional (belt-driven) A/C compressors and R-134a refrigerant</li> <li>Use to replace contaminated compressor oil and compressor oil lost by leaks or replacement of an A/C system part</li> <li><b>Use only when specified — do not use as a substitute for any other A/C compressor oil</b></li> </ul>						

## Premium Concentrated Antifreeze/Coolant

A/C & Engine Cooling Products




Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
VC-5	ESE-M97B44-A	1 U.S. gal.	1	6	164315

- Recommended by Ford Motor Company meeting warranty requirements
- Fluorescent green-colored, conventional, ethylene glycol-based antifreeze/coolant for use in gasoline and diesel engines, and electric motors
- Provides year-round antifreeze, anti-boil and corrosion protection
- A 50/50 mixture of this antifreeze/coolant and distilled water provides freeze protection down to -34 °F (-36.7 °C) and boiling protection up to 265 °F (129 °C)
- Use only when specified**
  - Approved to Ford Specification ESE-M97B44-A. Use when Ford Specification ESE-M97B44-A is specified
  - Do not mix different colors or types of antifreeze/coolant in your vehicle unless directed by the vehicle manufacturer to do so. It is important to use the correct antifreeze/coolant. Mixing of antifreeze/coolants or using an incorrect antifreeze/coolant may harm the engine (or electric motor) or cooling system components and may not be covered by the vehicle Warranty
- Meets or exceeds the requirements of ESE-M97B44-A, ASTM D 3306, Chrysler MS-7170, and ASTM D 4985
- Contains a bittering agent

## Premium Prediluted Antifreeze/Coolant


A/C & Engine Cooling Products



Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
VC-5DIL	ESE-M97B44-A	1 U.S. gal.	1	6	188858


- Recommended by Ford Motor Company meeting warranty requirements
- Fluorescent green-colored, conventional, ethylene glycol-based antifreeze/coolant for use in gasoline and diesel engines, and electric motors
- Provides year-round antifreeze, anti-boil and corrosion protection
- Ready-to-use. No need to add water. This 50/50 mixture of antifreeze/coolant and treated (purified) water provides freeze protection down to -34 °F (-36.7 °C) and boiling protection up to 265 °F (129 °C)
- Use only when specified**
  - Approved to Ford Specification ESE-M97B44-A. Use when Ford Specification ESE-M97B44-A is specified
  - Do not mix different colors or types of antifreeze/coolant in your vehicle unless directed by the vehicle manufacturer to do so. It is important to use the correct antifreeze/coolant. Mixing of antifreeze/coolants or using an incorrect antifreeze/coolant may harm the engine (or electric motor) or cooling system components and may not be covered by the vehicle Warranty
- Meets or exceeds the requirements of ESE-M97B44-A, ASTM D 3306, Chrysler MS-7170, and ASTM D 4985
- Contains a bittering agent

## Premium Cooling System Flush

	Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
	VC-1	ESR-M14P7-A	1 Qt.	1	12	166625


- Fast flush formulation
- Compatible with all coolant types
- Contains no petroleum distillates
- Use to flush engine cooling system whenever coolant is changed or repairs are required
- Does not require the use of a neutralizer
- Safe for aluminum water pumps

## R-1234yf Refrigerant

	Part Number	Specification Number	Size	Unit Pack	SDS / FIR Number
	YN-33-A	WSS-M17B21-A	10 lb. non-refillable cylinder	1	201488


- For A/C system recharge or replacement in all Ford and Lincoln vehicles equipped with R-1234yf refrigerant
- **Use only when specified. Do not use in vehicles equipped with R-134a refrigerant**

## R-1234yf Refrigerant PAG Oil


	Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
	YN-35	WSS-M2C300-A2	7 fluid oz.	1	6	195623

- Required in Ford and Lincoln vehicles equipped with conventional (belt-driven) A/C compressors and R-1234yf refrigerant
- Use to replace contaminated compressor oil and compressor oil lost by leaks or replacement of an A/C system part
- **Use only when specified — do not use as a substitute for any other A/C compressor oil**

## R-1234yf Refrigerant POE Oil


	Part Number	Specification Number	Size	Unit Pack	SDS / FIR Number
	YN-34	WSS-M2C31-B2	1 fluid oz.	1	195622
<ul style="list-style-type: none"> <li>• Required in Ford and Lincoln vehicles equipped with high-voltage battery electric A/C compressors and R-1234yf refrigerant</li> <li>• Use to replace contaminated compressor oil and compressor oil lost by leaks or replacement of an A/C system part</li> <li>• <b>Use only when specified — do not use as a substitute for any other A/C compressor oil</b></li> </ul>					

## R-134a Refrigerant

	Part Number	Specification Number	Size	Unit Pack	SDS / FIR Number
	YN-19	WSH-M17B19-A	30 lb. non-refillable cylinder	1	045167
<ul style="list-style-type: none"> <li>• For A/C system recharge or replacement in all Ford, Lincoln, and Mercury vehicles equipped with R-134a refrigerant</li> <li>• Every batch of R-134a refrigerant meets the Ford specification for purity</li> <li>• <b>Use only when specified. Do not use in vehicles equipped with R-1234yf refrigerant</b></li> </ul>					


A/C & Engine Cooling Products

## Specialty Orange Engine Coolant Revitalizer

	Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
	VC-12	N/A	1 Qt.	1	6	186446
<ul style="list-style-type: none"> <li>• Designed to replenish the corrosion inhibitors specific to Motorcraft® Orange Antifreeze/Coolant which may deplete with time between engine coolant change-outs</li> <li>• <b>Use only as directed</b> <ul style="list-style-type: none"> <li>- For use only in the following vehicles installed with Motorcraft® Orange Antifreeze/Coolant OR a mixture of both Motorcraft® Orange Antifreeze/Coolant and Motorcraft® Yellow Antifreeze/Coolant: <ul style="list-style-type: none"> <li>◦ 2011 – 2019 (built prior to 7/9/2018) diesel engine-equipped F-Series Super Duty® trucks</li> <li>◦ 2016 – 2019 (built prior to 7/16/2018) diesel engine-equipped F-650 and F-750</li> </ul> </li> <li>- Do not use in any other vehicles or with any other type of engine antifreeze/coolant unless directed to do so by the manufacturer</li> </ul> </li> <li>• Use the Extended Life Coolant Contamination Test Strip Kit, Rotunda Part Number 328-R071-ELC, at the recommended intervals to determine if the Motorcraft® Specialty Orange Engine Coolant Revitalizer should be added</li> <li>• May be added up to two times over the life of the engine antifreeze/coolant</li> </ul>						




## Yellow Concentrated Antifreeze/Coolant

	Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS/ FIR Number
	VC-13-G	WSS-M97B57-A1	1 U.S. gal.	1	6	200142
	VC-13-D	WSS-M97B57-A1	55 U.S. gal.	1	N/A	200142


- Recommended by Ford Motor Company meeting warranty requirements
- Yellow-colored, ethylene glycol-based antifreeze/coolant for use in gasoline and diesel engines, and electric motors
- Has an extended coolant life: Initial change-out at 10 years or 200,000 miles and every 5 years or 100,000 miles thereafter
- Provides immediate corrosion protection and improved resistance to deposits created by certain chemical reactions
- A 50/50 mixture of this antifreeze/coolant and distilled water provides freeze protection down to -34 °F (-36.7 °C) and boiling protection up to 265 °F (129 °C)
- **Use only when specified**
  - Approved to Ford Specification WSS-M97B57-A1. Use when Ford Specification WSS-M97B57-A1 is specified
  - Do not mix different colors or types of antifreeze/coolant in your vehicle unless directed by the vehicle manufacturer to do so. It is important to use the correct antifreeze/coolant. Mixing of antifreeze/coolants or using an incorrect antifreeze/coolant may harm the engine (or electric motor) or cooling system components and may not be covered by the vehicle Warranty
- Meets or exceeds the requirements of WSS-M97B57-A1 and ASTM D 3306
- Contains a bittering agent

## Yellow Prediluted Antifreeze/Coolant

	Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS/ FIR Number
	VC-13DL-G	WSS-M97B57-A2	1 U.S. gal.	1	6	202048
	VC-13DL-D	WSS-M97B57-A2	55 U.S. gal.	1	N/A	202048

- Recommended by Ford Motor Company meeting warranty requirements
- Yellow-colored, ethylene glycol-based antifreeze/coolant for use in gasoline and diesel engines, and electric motors
- Has an extended coolant life: Initial change-out at 10 years or 200,000 miles and every 5 years or 100,000 miles thereafter
- Provides immediate corrosion protection and improved resistance to deposits created by certain chemical reactions
- Ready-to-use. No need to add water. This 50/50 mixture of antifreeze/coolant and treated (purified) water provides year-round freeze protection down to -34 °F (-36.7 °C) and boiling protection up to 265 °F (129 °C)
- **Use only when specified**
  - Approved to Ford Specification WSS-M97B57-A1. Use when Ford Specification WSS-M97B57-A1 is specified
  - Do not mix different colors or types of antifreeze/coolant in your vehicle unless directed by the vehicle manufacturer to do so. It is important to use the correct antifreeze/coolant. Mixing of antifreeze/coolants or using an incorrect antifreeze/coolant may harm the engine (or electric motor) or cooling system components and may not be covered by the vehicle Warranty
- Meets or exceeds the requirements of WSS-M97B57-A2 and ASTM D 3306
- Contains a bittering agent

## Anti-Gel & Performance Improver (ULSD Compliant)




Part Number	Specification Number	Size	Unit Pack	SDS / FIR Number
PM-23-A	N/A	20 fluid oz.	12	178695
PM-23-ASU	N/A	8 fluid oz.	6	178695
PM-23-GAL	N/A	1 U.S. gal.	4	178695

**Note:** This ultra-low sulfur formulation can be used in engines required to meet 2007 emissions requirements (e.g., Ford's 6.4 L and 6.7 L diesel engines) and is backward compatible as well (i.e., can be used in Ford's 6.0 L, 6.9 L, and 7.3 L diesel engines).

- Ultra Low Sulfur Diesel (ULSD) Compliant
- Specially formulated for diesel engines to combat the effects of poor-quality diesel fuel
- Helps prevent gelling of diesel fuel in lines, filters, and tanks
- Improves starting ability in cold weather
- Smooths engine operation
- Improves fuel economy
- Adds lubricity to fuel to reduce engine wear

Brake & Engine Performance Products

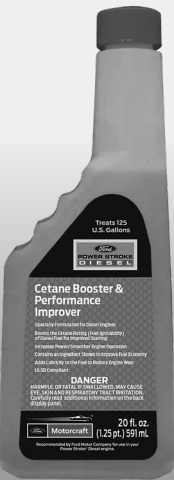
## Carburetor Tune-Up Cleaner



Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
PM-2	N/A	18 oz. aerosol	1	12	202466
PM-3	N/A	16 fluid oz.	1	12	159220

- Remove gums and other deposits from air/fuel induction systems of gasoline engines
- Free sticking valves and sluggish compression rings
- Purge excessive deposits from the combustion chambers
- Ideal for spray cleaning of varnished steel or cast iron parts normally hand cleaned on bench operations
- Not for use in diesel engines


## Cetane Booster & Performance Improver (ULSD Compliant)

	Part Number	Specification Number	Size	Unit Pack	SDS / FIR Number
	PM-22-A	N/A	20 fluid oz.	12	178699
	PM-22-ASU	N/A	8 fluid oz.	6	178699
	PM-22-GAL	N/A	1 U.S. gal.	4	178699

**Note:** This ultra-low sulfur formulation can be used in engines required to meet 2007 emissions requirements (e.g., Ford's 6.4 L and 6.7 L diesel engines) and is backward compatible as well (i.e., can be used in Ford's 6.0 L, 6.9 L, and 7.3 L diesel engines).

- Ultra Low Sulfur Diesel (ULSD) Compliant
- Specially formulated for diesel engines to combat the effects of poor-quality diesel fuel
- Boosts the Cetane Rating (fuel ignitability) of diesel fuel for improved starting performance
- Increases power
- Smooths engine operation
- Improves fuel economy
- Adds lubricity to fuel to reduce engine wear

## Choke and Linkage Cleaner

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	PM-14	WSS-M14P10-B	11 oz. aerosol	12	187068

- Sprays away grease, sludge, gum and varnish from the throttle plates, throttle bodies and other induction system components
- Helps clean oil and dirt from choke, carburetor linkage and manifold heat controls
- Not for use in diesel engines

## Diesel Exhaust Fluid (DEF)

Part Number	Specification Number	Size	Unit Pack	Sell Pack	Pallet Quantity	SDS / FIR Number
PM-27-GAL	WSS-M99C130-A	1 Gallon	1	6	32 Cases	183606
PM-27-JUG	WSS-M99C130-A	2.5 Gallon	1	2	36 Cases	183606
PM-27-D	WSS-M99C130-A	55 Gallon Drum	1	1	4 Drums	183606
PM-27-T	WSS-M99C130-A	275 Gallon Tote	1	1	1 Tote	183606
PM-27-N	N/A	1 nozzle in a resealable plastic bag	1	12	27	N/A




Nozzle Sold Separately

- Required for diesel vehicles equipped with a selective catalytic reduction (SCR) emissions aftertreatment system
  - Reduces NO<sub>x</sub> emissions in diesel vehicles with an SCR catalyst
  - AUS32 fluid meeting all the requirements and purity standards of ISO 22241 and DIN70070
  - Nozzle specifically designed to fit the DEF filler opening of 2011 model year and forward Ford diesel vehicles (as well as many competitive vehicles) and prevent over filling the DEF tank
  - Reuseable nozzle available separately with a resealable storage bag to prevent contamination of the nozzle. See bag, bottle, or owner guide for instructions
  - Use only dispensing systems that are compatible with DEF  
Dispensing systems for 55 gallon drums and 275 gallon totes are available from Rotunda
- DO NOT ADD TO FUEL TANK.**
- ONLY USE IN DIESEL VEHICLES EQUIPPED WITH SCR.**
- DIESEL VEHICLES EQUIPPED WITH SCR WILL NOT RUN IF THE VEHICLE RUNS OUT OF DIESEL EXHAUST FLUID.**


## DOT 4 LV High Performance Motor Vehicle Brake Fluid

Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
PM-20	WSS-M6C65-A2 and ISO4925 Class 6	16 fluid oz.	4	187151




- New Low Viscosity formulation, faster response at lower temperatures
- Recommended for new ABS brake systems with stability control
- Check brake fluid reservoir cap or master cylinder reservoir, owner guide and / or workshop manual for proper brake fluid usage
- Required for certain vehicles beginning in 2012-2013 model years
- Meets FMVSS DOT 4 and ISO4925 Class 6 standards

## DOT 5.1 Motor Vehicle Brake Fluid

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	PM-21	WSS-M6C65-A3	16 fluid oz.	4	176038

- Replaces Super DOT 4, Part Number YS4J-195420-AA
- Same high quality formula
- Check brake fluid reservoir cap or master cylinder reservoir, owner guide and / or workshop manual for proper brake fluid usage
- Required for use in F-53 Motorhome chassis with HydroMax brake system
- Meets FMVSS DOT 5.1 standard


## High Performance DOT 3 Motor Vehicle Brake Fluid

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	PM-1-C	WSS-M6C65-A1	12 fluid oz.	12	174922

- For vehicles with disc, drum or ABS
- Factory-fill formulation
- Minimum wet boiling point of 284 °F (140 °C) and a dry boiling point of 500 °F (260 °C)
- Meets DOT 3, SAE J1703 and FMVSS 116 specification


Brake & Engine Performance Products

## Metal Brake Parts Cleaner


	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	PM-4-A	N/A	13 oz. aerosol	12	186859
	PM-4-B	N/A	13 oz. (368 g) aerosol	12	175847
	PM-4LVC-D	N/A	55 U.S. gal.	1	191861
	PM-4HVC-D	N/A	55 U.S. gal.	1	191860

- Spray away grease and oil from metal brake parts
- Fast cleaning – fast drying
- PM-4-A and PM-4LVC-D are special 50-state low Volatile Organic Compound (VOC)-compliant formulas

## Power Flush Injector Fluid


	Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
		PM-5	N/A	8 fluid oz.	1	12
<ul style="list-style-type: none"> <li>• For use with injector cleaning equipment</li> <li>• Fast action – cleans dirty injectors in minutes</li> <li>• Reduces deposit-related engine knock</li> <li>• Do not add to fuel tank</li> <li>• For application instructions refer to the Power Flush Injector Fluid page at <a href="http://www.fcsdchemicalsandlubricants.com">www.fcsdchemicalsandlubricants.com</a></li> </ul>						

## Premium Fuel Injector Cleaner


	Part Number	Specification Number	Size	Unit Pack	Sell Pack	SDS / FIR Number
		PM-6	ESE-M14P16-A	12 fluid oz.	1	12
<ul style="list-style-type: none"> <li>• Pour in fuel tank to clean dirty injectors while you drive</li> <li>• High-strength formulation – usually cleans injectors with one treatment</li> <li>• Reduces deposit-related engine knock</li> <li>• Removes intake valve deposits</li> </ul>						

Brake & Engine Performance Products


## Pressurized Fuel Injector Cleaner

	Part Number	Specification Number	Size	Unit Pack	SDS / FIR Number
		CM-1001	ESE-M14P17-A	10 oz.	1
<ul style="list-style-type: none"> <li>• Helps restore fuel system components to factory-specification performance with just one treatment</li> <li>• Cleans entire fuel injection system</li> <li>• Removes deposits from gasoline engine fuel injectors, intake valves, combustion chambers and the fuel induction system</li> <li>• Use only with Fuel Injector Cleaner Application Kits (CM-1003) or equivalent</li> <li>• For professional use only</li> </ul>					


## Anti-Corrosion Coating

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
		PM-13-B	N/A	16 fluid oz.	1
<ul style="list-style-type: none"> <li>• Excellent long-lasting corrosion protection and mar resistance</li> <li>• For service temperatures exceeding 180 °F (82 °C)</li> <li>• Apply with brush, roller or spray</li> <li>• Surface must be free of oil, dirt and other foreign material</li> <li>• Apply at 2.5 mil film thickness Approximately 300 sq. ft. / gallon at 2.5 mil film thickness</li> </ul>					

## Metal Bonding Adhesive


	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
		TA-1	N/A	1.7 fluid oz.	1
	TA-1-B	N/A	7.6 fluid oz.	6	200541 / 200561
<ul style="list-style-type: none"> <li>• Easy to use formula creates uniform bondline thickness every time despite differences in clamping techniques</li> <li>• No welding needed</li> <li>• Replacement of OEM structural adhesives when specified in service publications</li> <li>• Door skin replacement as specified on <a href="http://www.FMCDealer.com">www.FMCDealer.com</a></li> <li>• Tough modified acrylic formula</li> <li>• For bonding cold rolled steel, galvanized steel, aluminum and scuffed e-coat as specified in service publications</li> <li>• Built-in color indicator turns from beige to green when initial set has been achieved</li> </ul>					

## Seam Sealer (Black)


	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
 <p><b>Seam Sealer / Mastic pour joints</b>  <small>FOR INDUSTRIAL USE ONLY / POUR USAGE INDUSTRIEL SEULEMENT            NOT FOR RETAIL SALE / NE PAS VENDRE EN DÉTAIL            © 2014 Ford Motor Company. All rights reserved. Motorcraft is a registered trademark of Ford Motor Company.</small></p>	TA-2-B	N/A	9.5 fluid oz.	1	202470
<ul style="list-style-type: none"> <li>• Fast-curing</li> <li>• Permanently flexible</li> <li>• Excellent bond strength</li> <li>• Paintable in 10 minutes</li> <li>• Will not shrink, crack or peel</li> <li>• Bonds to all primed or painted metals, and most automotive plastics</li> <li>• Heavy bodied, non-sag formula</li> <li>• Immediately bakeable</li> <li>• Typical applications include: Duplicating factory look on: standing cosmetic seams, truck bed seams, tooled door skin seams, floor pans, core supports. Anywhere a non-sag, cosmetic seam sealer is required</li> <li>• Available in 9.5 fl. oz. (281 mL) aluminum caulk tubes</li> </ul>					




## Acid Neutralizer

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	ZC-1-A	N/A	1 U.S. gal.	4	152625
<ul style="list-style-type: none"> <li>Neutralizes acids which may have been deposited on the paint surface during transportation and storage</li> <li>Removes waxes and hard water spots</li> <li>Excellent pre-wash for body shop – removes silicones, waxes and other contaminants before sanding</li> <li>Saves time when applied to used vehicles – removes oxidation and reduces buff time</li> </ul> <p><b>Note:</b> This product is the first step in the Ford-recommended neutralizing, cleaning, three-step process for automotive finishes as specified per TSB 04-9-6. All three products must be used for complete neutralization.</p>					


## Alkaline Neutralizer

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	ZC-2-A	N/A	1 U.S. gal.	4	152570
<ul style="list-style-type: none"> <li>Deep cleans painted surfaces to remove alkaline deposits</li> <li>Dissolves ferrous metal particles while breaking their bond to the paint so that they safely and easily float away</li> </ul> <p><b>Note:</b> This product is the second step in the Ford-recommended neutralizing, cleaning, three-step process for automotive finishes as specified per TSB 04-9-6. All three products must be used for complete neutralization.</p>					


## Bug and Tar Remover

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	ZC-42	N/A	16 fluid oz.	12	167202
<ul style="list-style-type: none"> <li>Multiple deposit remover – cuts tar, asphalt, rust proofing, road oils and gummy materials, as well as removes insects without excessive scrubbing</li> <li>Safe for use on all Ford, Lincoln, and Mercury exterior production vehicle finishes</li> </ul> <p><b>Note:</b> For best results, wash the surface with Motorcraft® Detail Wash, ZC-3-A, after using Bug and Tar Remover.</p>					

## Custom Bright Metal Cleaner


	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	ZC-15	ESR-M5B194-B	16 fluid oz.	12	502295
<ul style="list-style-type: none"> <li>Removes rust from pitted chrome – takes off salt and road chemicals fast</li> <li>Helps restore shine to chrome, aluminum and brass</li> <li>Rub on, let dry and then wipe off. Fast dissolving action saves time</li> </ul> <p><b>Note:</b> Do not use on clear coated and painted surfaces.</p>					

## Detail Wash


	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	ZC-3-A	ESR-M14P4-A	1 U.S. gal.	4	152626
<ul style="list-style-type: none"> <li>A great vehicle wash</li> <li>Returns paint to its original factory pH level</li> <li>Excellent for everyday use. The pH 7.0 (neutral) formula removes dirt without stripping waxes, polishes or sealants</li> <li>Concentrated formula – when diluted with water as recommended, each 1 U.S. gallon produces 128 U.S. gallons of wash</li> </ul> <p><b>Note:</b> This product is the third step in the Ford-recommended neutralizing cleaning, three-step process for automotive finishes as specified per TSB 04-9-6. All three products must be used to ensure complete neutralization.</p>					

Exterior & Interior Vehicle Cleaners

## Engine Shampoo and Degreaser

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	ZC-20	ESR-M14P3-A	15 oz. aerosol	12	200950
<ul style="list-style-type: none"> <li>Cleans grease, oil and road dirt from engine and engine compartment prior to painting or performing engine repair</li> <li>Use to clean transmission housings, hydraulic equipment, enclosed electric motors, generator housings, gear casings and hand tools</li> <li>See Owner's Guide for Engine Cleaning instructions</li> </ul>					


## Premium Leather and Vinyl Cleaner

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	ZC-56	WSS-M99P43-B	32 fluid oz.	12	191765

- Specially formulated for vehicle interior leather and vinyl surfaces
- Specially formulated to work on a variety of tough stains
- **Removes dye transfer easily**
- Quick performance
- pH balanced
- Environmentally friendly-water based pump spray
- Does not contain any harsh solvents, chemicals or bleaches
- No odor


Not to be used on Lincoln Black Label®, Lincoln Reserve® or King Ranch®.

## Premium Windshield Wash Products


	Product Name	Part Number	Container Size	Units per Pack	SDS/FIR Number
	Premium Windshield Wash Concentrate with Bitterant	ZC-32-B2	1 Qt. (32 fluid oz.)	12	189646
	Premium Windshield Wash Concentrate	ZC-32-C1	55 U.S. gal.	1	189309
	Premium Windshield Wash Concentrate	ZC-32-C4	55 U.S. gal.	4	189309
	Premium Windshield Deicer and Cleaner -30 °F	ZC-32DEICER-DG	1 U.S. gal.	6	189337
	Premium Windshield Wash -20 °F	ZC-32M20-EG	1 U.S. gal.	6	189472
	Premium Windshield Wash -20 °F	ZC-32M20-ED	55 Gallon Drum	1	189472
	Premium Windshield Wash -20 °F	ZC-32M20-ET	275 Gallon Tote	1	189472
	Premium Windshield Wash +20 °F	ZC-32P20-GG	1 U.S. gal.	6	189530
	Premium Windshield Wash +32 °F	ZC-32P32-HG	1 U.S. gal.	6	189359
	Premium Windshield Wash 0 °F	ZC-32P32-FG	1 U.S. gal.	6	189615

Exterior & Interior Vehicle Cleaners

## Professional Strength Carpet and Upholstery Cleaner

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	ZC-54	N/A	18 oz. aerosol	12	171146
<ul style="list-style-type: none"> <li>• Aerosol system provides excellent delivery of foaming product for deep cleaning of automotive interiors</li> <li>• Do not use on silk, velvet, vinyl or leather surfaces</li> <li>• Removes dirt, grease and grime to restore a like-new appearance</li> </ul>					

## Spot and Stain Remover

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	ZC-14	N/A	16 fluid oz.	12	124473
<ul style="list-style-type: none"> <li>• Safely and effectively removes spots and stains on automotive upholstery</li> <li>• Non-flammable, water-based formula</li> <li>• Contains no chlorinated solvents</li> <li>• Fast-acting and easy to use</li> <li>• Great for use on grease, oil, stains and ground-in dirt</li> </ul>					

## SurfaceCARE Interior and Exterior Protection

Part Name	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
Spray On Paint Sealant	ZC-61	N/A	1 U.S. gal.	1	194957
Rub On Paint Sealant	ZC-60	N/A	1 U.S. gal.	1	194956
Fabric Sealant	ZC-58	N/A	1 U.S. gal.	1	194953
Leather / Vinyl Sealant	ZC-59	N/A	1 U.S. gal.	1	194954



### SurfaceCARE Exterior Protection – Ford & Lincoln Extended Service Plan (ESP)

#### **Spray On Paint Sealant:**

- Application produces an advanced Micro-coating when sprayed onto the vehicle's exterior paint to help shield it from harmful environmental elements and pollutants
- Brown caramel in color and a sprayable liquid

#### **Rub On Paint Sealant:**

- A hand applied coating including advanced Silicone Polymers that will help protect the vehicle's exterior paint from harmful environmental elements and pollutants
- Beige off-white in color and a cream blend consistency

### SurfaceCARE Interior Protection – Ford & Lincoln Extended Service Plan (ESP)

#### **Interior Fabric Sealant:**


- Advanced water-based solution of Fluoro-copolymers and UV inhibitors that helps protect Interior Fabric seats and carpet by allowing easy clean-up from food, drink and oil-based stains
- Milky white in color and a sprayable liquid

#### **Interior Leather / Vinyl Sealant:**


- Advanced water-based solution of Fluoro-copolymers and UV inhibitors that helps create a barrier against stains and premature aging
- Milky white in color and cream blend consistency

**Note:** These products are only available to Dealers enrolled in the ESP SurfaceCARE Program. These products are only available to your Dealer in conjunction with applicable ESP Service Contract Purchase.

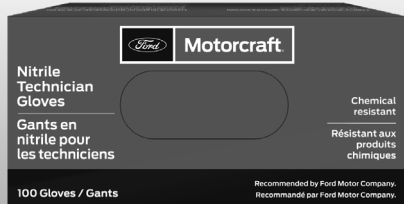
## Ultra-Clear Spray Glass Cleaner

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	ZC-23	ESR-M14P5-A	15 oz. aerosol	12	019761
<ul style="list-style-type: none"> <li>• Non-streaking, foaming cleaner</li> <li>• Removes smudges, film and smears</li> <li>• Not harmful to painted surfaces</li> <li>• Formulated for automotive use</li> <li>• Great for new car/truck detailing – excellent for removing transit coating from all glass surfaces, including mirror glass</li> <li>• Use only as directed. Do not use on surfaces other than glass and mirrors</li> </ul>					





## Wheel and Tire Cleaner

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	ZC-37-A	N/A	16 fluid oz.	12	176131
<ul style="list-style-type: none"> <li>• The only tested and approved product for cleaning wheels on Ford Motor Company vehicles</li> <li>• Effectively removes brake dust</li> <li>• Spray-on, hose-off formula</li> <li>• May require some agitation with sponge for heavier deposits</li> <li>• Combination product safely cleans tires, including white-letters and white-walls</li> </ul>					



## Nitrile Technician Gloves

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
 <p>Nitrile Technician Gloves Gants en nitrile pour les techniciens</p> <p>100 Gloves / Gants</p> <p>Chemical resistant Résistant aux produits chimiques</p> <p>Recommended by Ford Motor Company, Recommandé par Ford Motor Company.</p>	ZC-55-S	N/A	100 Count (Small)	10	N/A
	ZC-55-M	N/A	100 Count (Medium)	10	N/A
	ZC-55-L	N/A	100 Count (Large)	10	N/A
	ZC-55-XL	N/A	100 Count (X-Large)	10	N/A
	ZC-55-XXL	N/A	100 Count (XX-Large)	10	N/A
	<ul style="list-style-type: none"> <li>• More durable and puncture- and chemical-resistant than latex gloves</li> <li>• Latex- and powder-free</li> <li>• Comfortable fit. Fully textured for a firm grip whether wet or dry</li> <li>• Resistant against: antifreeze, transmission fluid, paint thinners, adhesive removers, gasoline, diesel fuel, engine and gear oil, paint, lacquer, grease and many other similar chemicals</li> <li>• Ideal for technicians when painting, performing auto body and mechanical repairs, and more</li> </ul>				

## All-in-one Exterior Lacquer Touch-up Paints

	Part Number	Specification Number	Size	Unit Pack	SDS / FIR Number
	PMPC-19500-XXXXA (XXXX = Color Code)	ESR-M2P100-C	0.25 fluid oz. basecoat and 0.25 fluid oz. topcoat	1	009836 (basecoat) and 039975 (clear topcoat)
	PMPM-19500-XXXXG (XXXX = Color Code)	ESR-M2P100-C	0.25 fluid oz. basecoat and 0.25 fluid oz. topcoat	1	009836 (basecoat) and 195212 (matte clear topcoat)
	PMPP-19500-XXXXA (XXXX = Color Code)	ESR-M2P100-C	0.25 fluid oz. basecoat and 0.25 fluid oz. topcoat	1	009836 (basecoat and color-specific pearl topcoat)
	<ul style="list-style-type: none"> <li>• Only Motorcraft® has the full line of quality, Ford-approved, exact-match, major-use exterior touch-up paints for use on Ford Motor Company vehicles</li> <li>• The air-dry, lacquer-based touch-up paint is ideal for retouching nicks, chips and scratches during new car prep and customer use</li> <li>• The built-in, full-width agitator thoroughly mixes paint for exact color match</li> <li>• The label color on each tube of paint approximates the basecoat color</li> <li>• Each paint tube's all-in-one packaging consists of the following:               <ul style="list-style-type: none"> <li>- <b>Abrasive prep tip (beveled fiberglass):</b> Use pointed edge to remove loose paint and rust, or the flat face to smooth down edges and clean larger areas.</li> <li>- <b>0.25 fluid oz. (7.39 mL) of color basecoat with two applicator options:</b> <ol style="list-style-type: none"> <li>(a) Self-clearing, piston-style applicator (pen) tip: The patented acetyl tip provides enhanced precision flow control for a smooth finish. Use for precise retouching of fine chips and scratches. The smooth, controlled tip can be used at various angles.</li> <li>(b) Tapered paint brush: Use for pinpoint or broad-stroke/larger areas. Can be used at any angle. The reinforced shaft of the brush is durable and narrow, allowing the paint to flow down the shaft to the brush with minimal dripping during application.</li> </ol> </li> <li>- <b>0.25 fluid oz. (7.39 mL) of topcoat with a beveled foam applicator</b></li> </ul> </li> </ul>				

## Argent Spray Paint

	Part Number	Specification Number	Size	Unit Pack	SDS / FIR Number
	PM-19K207-AA	ESR-M2P92-A	13 oz. aerosol	1	196166
	<ul style="list-style-type: none"> <li>• Excellent for reconditioning used vehicles</li> <li>• Use to refinish splash pans and other argent-colored (silver) metal body parts</li> <li>• Valuable tool for touching up cars and trucks</li> </ul>				



## Clear Silicone Rubber



Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
TA-32	ESB-M4G92-A	3 fluid oz.	12	500000
<ul style="list-style-type: none"> <li>• Form-in-place gasket and multi-purpose adhesive/sealant</li> <li>• Room-temperature acetic acid cure silicone rubber</li> <li>• Many other uses such as sealing leaks, remounting trim and repairing torn weather stripping</li> <li>• Dispenser nozzle can be custom-cut to desired bead size</li> <li>• For replacing gaskets in approved applications</li> </ul>				

## EV Battery Array Thermal Interface Material II




Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
TA-38-B	WSS-M46372-A1	200 mL	1	503686 / 503688
<ul style="list-style-type: none"> <li>• Specially-formulated for repair of Ford battery arrays</li> <li>• TA-38-B should be used wherever TA-38 is specified</li> <li>• Shelf life of 6 months</li> </ul>				

## Gasket Maker




Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
TA-16	WSK-M2G348-A5	0.2 fluid oz.	12	196512
<ul style="list-style-type: none"> <li>• Flexible, anaerobic gasketing material (red)</li> <li>• Use on rigid machined flanges with less than 0.010" gap</li> <li>• Seals upon assembly, no waiting required</li> <li>• Adheres well to aluminum, iron, steel and magnesium</li> <li>• May also be used on automatic/manual transaxle cases, gear shift housings, dipstick tubes, water pumps and engine flanges</li> </ul>				


## High Performance Engine RTV Silicone

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	TA-357	WSE-M4G323-A6	5 fluid oz.	6	500108
<ul style="list-style-type: none"> <li>• Required for use on all 3.5L/3.7L and Mustang 5.8L (4V) engine gasketing applications</li> <li>• Cartridge fits standard caulking gun</li> </ul>					


## Instant Gel Adhesive

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	TA-19-C	WSS-M2G401-B5	.06 fluid oz.	12	194883
<ul style="list-style-type: none"> <li>• Rapid curing instant adhesive</li> <li>• Gel formula won't run or drip</li> <li>• Excellent humidity and weather resistance</li> <li>• Use on metals, wood, paper, fabrics, leather, rubber, ceramics and most plastics</li> <li>• May also be used on dashboard panels, vacuum lines, loose trim, emblems and loose vinyl body side moldings</li> </ul>					


## Metal Surface Prep Wipes

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	ZC-31-B	N/A	25 – 9.5" x 12" wipes	1	190874
<ul style="list-style-type: none"> <li>• Easy-to-use wipes</li> <li>• Use as surface preparation prior to applying RTV silicone sealants</li> <li>• Helps clean and degrease metal surfaces; removes light RTV silicone residue</li> </ul>					


## Rear View Mirror Adhesive

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	TA-17-B	N/A	0.01/0.02 fluid oz.	10	196534 / 196537
<ul style="list-style-type: none"> <li>Permanently remounts mirrors to windshields</li> <li>Achieves handling strength in seconds; mirror mounting strength in 15 minutes</li> <li>Superfast, high strength, instant adhesive may also be used to bond close-mated, smooth-surface parts</li> </ul>					


## Rear View Mirror Button Adhesive

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	F7AZ-17698-BA (large)	WSS-M2G389-A	21mm x 29mm	10	N/A
<ul style="list-style-type: none"> <li>Found to adhere much longer in high temperature, high humidity environments under constant load</li> <li>Developed and sold only through Ford for service repair. Not available elsewhere</li> <li>Applicable to all Ford, Lincoln, and Mercury vehicles, and many other domestic vehicles</li> <li>Use with Rotunda applicator 164-R3925</li> </ul>					

## RTV Silicone Sealant

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	TA-31	N/A	5 fluid oz.	12	139293
<ul style="list-style-type: none"> <li>• A specially designed Alkoxy-Cure RTV Sealant for high temperature applications</li> <li>• Specifically recommended for use with the 7.3L Power Stroke®, 6.0L and 6.4L diesel engine</li> <li>• Non-corrosive, high viscosity material which starts to cure in minutes</li> </ul>					

## Silicone Gasket Remover

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	ZC-30-A	N/A	12 oz. aerosol	12	197247
<ul style="list-style-type: none"> <li>• Specifically formulated to soften cured RTV and residue left from multi-layer steel gaskets</li> <li>• Allows removal of gasket residue with a plastic or wood scraper</li> <li>• Safe for aluminum and cast iron gasket surfaces</li> <li>• Assures a safe cleaning process without risk of damaging the sealing surface</li> <li>• Eliminates the need for metal tools or abrasives for removing gasket residue</li> <li>• Only Ford-approved product for removing multi-layer steel gaskets and RTV silicone</li> </ul>					


## Temporary Mobility Kit and Temporary Mobility Kit Canister

	Part Name	Part Number	Ford Part Number	Size	Units per Pack	SDS / FIR Number
	Canister w/ hose	TA-369	KR3Z-19554-B	15.2 fluid oz. (450 mL)	1	191813
	Compressor without canister	N/A	FR3Z-19G525-B	N/A	1	N/A
	Canister w/ hose	TA-33	8S4Z-1568-B	16.9 fluid oz. (500 mL)	1	177949
	Canister w/ hose	TA-34	AG1Z-1568-A	13.5 fluid oz. (400 mL)	1	177949
	Compressor w/ canister	with TA-34	AG1Z-19L523-A	13.5 fluid oz. (400 mL)	1	177949
	Canister	TA-363	FCPZ-19554-A	10.1 fluid oz. (300 mL)	1	178617
<ul style="list-style-type: none"> <li>• Certain vehicles are equipped with a Temporary Mobility Kit in the spare tire compartment</li> <li>• Recommended only for use in those vehicles in which it was supplied as original equipment</li> <li>• Follow directions carefully. Instruction cards are in the compartment with the kit and in Owner Guides</li> <li>• Sealant formula will last up to 5 years from the production date</li> <li>• Check the Use by Dates on the canister at regular maintenance intervals as this is a time sensitive product</li> <li>• Check the canister label for the correct replacement canister part number information</li> </ul>						


## Thread Sealant with PTFE

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	TA-24-B	WSK-M2G350-A2	0.2 fluid oz.	10	190977
<ul style="list-style-type: none"> <li>• Instantly seals threaded fittings</li> <li>• Resistant to engine and transmission fluids</li> <li>• Lubricates bolts and studs</li> <li>• May also be used on fuel inlet fittings, hydraulic lines, water outlet plugs, rear axle fill plugs and transmission oil cooler lines</li> </ul>					


## Threadlock 262

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	TA-26	WSK-M2G351-A6	0.2 fluid oz.	10	196505
	<ul style="list-style-type: none"> <li>• High strength (red)</li> <li>• Cures only when confined between surfaces</li> <li>• Prevents loosening of nuts, bolts, screws and fittings</li> <li>• Maintains clamp load</li> <li>• May also be used on seat and door bolts, cup plugs, dip stick tubes, engine studs, ring gear bolts, bearing sleeves and bearing shafts</li> </ul>				

## Threadlock and Sealer

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	TA-25-B	N/A	0.2 fluid oz.	10	190978
	<ul style="list-style-type: none"> <li>• Medium-strength threadlocker (blue)</li> <li>• Working bond is formed in 5 minutes—no more waiting. Final bond forms in 24 hours</li> <li>• Cures only when confined between surfaces</li> <li>• Cures without cracking or shrinking</li> <li>• Hand tool removable</li> <li>• Prevents loosening of nuts, bolts, screws and fittings</li> </ul>				

## Ultra Silicone Sealant

	Part Number	Specification Number	Size	Units per Pack	SDS / FIR Number
	TA-29	N/A	2.4 fluid oz.	12	500351
	<ul style="list-style-type: none"> <li>• RTV Silicone (gray) designed for rigid flanges</li> <li>• Resistant to oil, transmission fluid, gear oils and coolant</li> <li>• No odor, O<sub>2</sub> Sensor safe</li> <li>• For use on transmission pans and covers, axle cover plates and transfer case covers</li> </ul>				

## Motorcraft Oil – Quick Reference Oil Applications and Crankcase Capacities Chart

Recommend Motorcraft SAE 5W-20	Oil Refill (Qts) [1]	Oil Filter	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
2.0L ATK Fusion Hybrid / MKZ Hybrid / C-Max (13-18)	4.5	FL 910 S										
2.0L ATK Fusion Police Hybrid	4.5	FL 910 S										
2.5L 4V Escape / Corsair (21-) / Maverick (22-) Hybrid	6.0	FL 910 S										

Recommend Motorcraft SAE 5W-20	Oil Refill (Qts) [1]	Oil Filter	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
1.0L EB Fiesta	4.8	FL 910 S										
1.0L EB Focus	4.8	FL 910 S										
1.0L EB Ecosport	4.8	FL 910 S										
1.5L EB Bronco Sport	5.3	FL 910 S										
1.5L EB Fusion	4.3	FL 910 S										
1.5L EB Escape	4.3 (19) / 5.3	FL 910 S										
1.6L EB Escape / Fusion (13-14)	4.3	FL 910 S										
1.6L 4V Fiesta	4.2	FL 910 S										
1.6L EB Fiesta ST / Transit Connect (16)	4.3	FL 910 S										
1.6L EB Escape / Fusion (14)	4.3	FL 910 S										
2.0L 4V I4 Focus	4.5	FL 910 S										
2.0L 4V I4 Transit Connect	4.8	FL 910 S										
2.0L 4V I4 Ecosport	4.5	FL 910 S										
2.5L 4V Escape (19) / Fusion	5.7	FL 910 S										
2.5L 4V Transit Connect	5.7	FL 910 S										
3.3L 4V F-150 / Police	6.0	FL 500 S										
3.3L 4V Explorer / Police Utility / including Hybrid	6.0	FL 500 S										
3.5L 4V Taurus / Flex / Police Sedan / Police Utility / MKZ (12)	6.0	FL 500 S										
3.5L 4V Explorer / Edge (18)	6.0	FL 500 S										
3.5L 4V Transit (15-21)	6.0	FL 500 S										
3.5L 4V F-150	6.0	FL 500 S										
3.7L 4V MKS (16) / MKX (16) / MKT	6.0	FL 500 S										
3.7L 4V MKZ / Edge (14)	6.0	FL 500 S										
3.7L 4V Taurus / Police Sedan / Police Utility / Explorer	6.0	FL 500 S										
3.7L 4V Mustang / F-150 (14)	6.0	FL 500 S										
3.7L 4V Transit	6.0	FL 500 S										
3.7L Continental	6.0	FL 500 S										
4.6L 2V Econoline	6.0	FL 820 S										
5.0L 4V Mustang without track pack option	8.0	FL 500 S										
5.0L 4V Mustang without track pack option [3]	10.0	FL 500 S										
5.0L 4V F-150	7.7	FL 500 S										
5.0L 4V F-150 / Police	8.8	FL 500 S										
5.4L 2V Econoline [5]	6.0	FL 820 S										

Continued on next page

## Motorcraft Oil – Quick Reference Oil Applications and Crankcase Capacities Chart (cont'd)

Recommend Motorcraft SAE 5W-20 (cont'd)	Oil Refill (Qts) [1]	Oil Filter	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
5.4L 3V Navigator / Expedition / Mark LT (08)	7.0	FL 820 S										
6.2L F-150 / Raptor [5]	7.0	FL 820 S										
6.2L F-Super Duty [5]	7.0	FL 820 S										
6.8L 2V Econoline [5]	6.0	FL 820 S										
6.8L 3V F-Super Duty [5]	7.0	FL 820 S										
Recommend Motorcraft SAE 5W-30	Oil Refill (Qts) [1]	Oil Filter	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
2.0L EB Bronco Sport	5.5	FL 910 S										
2.0L EB Explorer (15) / Police Utility (13-15) / MKX	5.7	FL 910 S										
2.0L EB Edge	5.7	FL 910 S										
2.0L EB MKC	5.7	FL 910 S										
2.0L EB Focus ST (18) / Escape / Taurus / MKT	5.7	FL 910 S										
2.0L EB Fusion / MKZ	5.7	FL 910 S										
2.0L EB Edge / Nautilus	5.5	FL 910 S										
2.0L EB Corsair / Escape / Maverick (22-)	5.5	FL 910 S										
2.3L EB Bronco	6.2	FL 910 S										
2.3L EB Mustang [3] / MKC (19)	6.0	FL 910 S										
2.3L EB Explorer / Police Utility	5.7(19) / 5.2	FL 910 S										
2.3L EB Ranger	6.2	FL 910 S										
2.3L EB Corsair	5.5	FL 910 S										
2.7L EB Bronco	7.0	FL 2062										
2.7L EB MKX	6.0	FL 2062										
2.7L EB F-150 / Police (18-) / Edge	6.0	FL 2062										
2.7L EB Continental / Fusion (20)	6.0	FL 2062										
2.7L EB Nautilus	6.0	FL 2062										
3.0L EB Continental / MKZ (20)	6.0	FL 2062										
3.0L EB Explorer / ST / Police Utility / Aviator / including Hybrid	6.0	FL 2062										
3.5L 4V Transit (22-)	6.0	FL 500 S										
3.5L EB F-150 / Raptor / Police (18-)	6.0	FL 500 S										
3.5L 4V F-150 FHEV	6.0	FL 500 S										
3.5L EB Taurus SHO / Flex / MKS (16) / MKT	6.0	FL 500 S										
3.5L EB Expedition / Navigator	6.0	FL 500 S										
3.5L EB Police Sedan / Police Utility / Explorer Sport	6.0	FL 500 S										
3.5L EB Transit	6.0	FL 500 S										
5.0L 4V Mustang without track pack option [3]	10.0	FL 500 S										
5.0L 4V F-150 / Police	7.8	FL 500 S										
5.4L 2V Econoline	6.0	FL 820 S										
6.2L F-Super Duty	7.0	FL 820 S										
6.2L 4V Econoline	7.0	FL 820 S										
6.8L 2V Econoline	6.0	FL 820 S										

Continued on next page



## Motorcraft Oil – Quick Reference Oil Applications and Crankcase Capacities Chart (cont'd)

Recommend Motorcraft SAE 5W-30 (cont'd)	Oil Refill (Qts) [1]	Oil Filter	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
6.8L 3V F-Super Duty	7.0	FL 820 S										
7.3L 2V F-Super Duty / Econoline (21-)	8.0	FL 820 S										
<b>Recommend Motorcraft SAE 5W-50</b>												
2.3L EB Focus RS	5.4	FL 910 S										
2.3L EB HO Mustang	6.0	FL 910 S										
3.5L EB Ford GT Supercar	Note [8]	Note [8]										
5.0L 4V Mustang Boss 302	8.0	FL 500 S										
5.0L 4V Mustang GT with Track Pack option	8.0	FL 500 S										
5.2L 4V Mustang GT350	10.0	FL 2069 ST										
5.2L 4V Mustang GT350	10.0	FL 2062										
5.2L 4V Mustang GT350	10.0	FL 2087										
5.2L 4V Mustang GT500 Supercharged V8	11.5	FL 2087										
5.8L 4V DOHC Supercharged V8 - Shelby GT500	8.5	FL 820 S										
<b>Recommend Motorcraft SAE 10W-30 WSS-M2C171-F1 [6]</b>												
6.7L DIT Diesel F-250-550 [4]	13.0	FL 2051										
6.7L DIT Diesel F-650-750 [4]	15.0	FL 2051										
<b>Recommend Motorcraft SAE 5W-40 WSS-M2C171-F1 [6]</b>												
3.2L Turbo Diesel Transit [4]	12.0	FL 500 S										
<b>Recommend Motorcraft SAE 5W-30 FA-4</b>												
3.0L Turbo Diesel F-150 / Police [7]	6.5	FL 2081										

(##) indicates last year (##) or first year (##) or years (## - ##) in production

Note [1]: All capacities are with oil filter.

Note [2]: FL 2005 replaced by FL 400 S.

Note [3]: Mustang, for track use change to SAE 5W-30 for 5.0L and 5W-50 for 2.3L.

Note [4]: Check Owner's Guide for appropriate viscosity depending on ambient temperature, duty cycle and biofuel content.  
 Above 20°F (-7°C) use SAE 15W-40 WSS-M2C171-F1 (except 3.2L Power Stroke® Diesel)  
 Above -20°F (-29°C) use SAE 5W-40 or 0W40 WSS-M2C171-F1 [6]  
 Above -40°F (-40°C) use SAE 0W-30 or 0W-40 WSS-M2C171-F1 [6]

Note [5]: Also serviceable with SAE 5W-30.

Note [6]: Oils showing CK-4 and CJ-4 in the API Donut are not recommended unless they are approved to WSS-M2C171-F1.

Note [7]: Check Owner's Guide for appropriate viscosity depending on ambient temperature, duty cycle and biofuel content.

Above 0°F (-18°C) use SAE 10W-30 FA-4

Above -20°F (-29°C) use SAE 5W-30 FA-4, or 5W-40 WSS-M2C171-F1, CK-4

Above -40°F (-40°C) use SAE 0W-30 or 0W-40 WSS-M2C171-F1, CK-4

Note [8]: Oil Filter H67Z-6731-A. Recommend Oil Change to be performed at Ford Dealer. Fill levels vary. ~13.7qts for complete system drain and ~12qts for all drained except oil cooler and oil lines.

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# Motorcraft® Axle Lubricants – Quick Reference Lubricant Applications and Capacities Chart

Quick Reference Charts

Application	Axle Location	Fluid Refill (Pints) [1]	Axle Description	Friction Modifier [2]	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>PASSENGER CARS</b>														
Focus RS	Rear	1.9 [4] [8]	TVR	XL-19										
Taurus (19) / Fusion	Rear	2.4 [4]	ATC	N/A	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
MKZ / MKS (16)	Rear	2.4 [4]	ATC	N/A	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
MKT	Rear	2.4 [4]	ATC	N/A	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
MKZ (2.0L EB engine)	Rear	2.4 [4]	ATC	N/A										
Lincoln Continental (2.7L EB, 3.7L (20 engines))	Rear	2.4 [4]	ATC	N/A										
Lincoln Continental / MKZ (3.0L EB engine)	Rear	1.9 [4] [8]	TVR	XL-19										
Mustang (All)	Rear	4.0	8.8	XL-3 for LS	●	●	●	●	●	●	●	●	●	●
Shelby GT500	Rear	4.0	8.8	XL-3	●	●	●	●	●	●	●	●	●	●
Shelby GT350	Rear	4.0	8.8	XL-3										
<b>TRUCKS</b>														
Aviator	Front	1.3 [6]	6.5	N/A										●
Aviator	Rear	3.7 [6]	8.8	N/A										●
Bronco	Front	1.9 [6]		N/A										◆
Bronco	Rear	4.2		N/A										◆
Bronco Sport 1.5L	Rear	1.6 [9]	Disconnect	N/A										▲
Bronco Sport 2.0L	Rear	2.5 [9]	Disconnect	N/A										▲
Corsair/Escape	Rear	1.6 [9]	Disconnect	N/A										▲
Ecosport 2.0L	Rear	1.3 [9]	ATC	N/A										◆
Edge / MKX	Rear	2.4 [4]	ATC	N/A	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Edge / Nautilus	Rear	1.5 [9]	Disconnect	N/A										▲
Flex	Rear	2.4 [4]	ATC	N/A	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Explorer	Rear	2.4 [4]	ATC	N/A	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Explorer / Police Utility	Front	1.3 [6]	6.5	N/A										●
Explorer / Police Utility	Rear	3.4 [6]	8.1	N/A										◆
Explorer / Police Utility	Rear	3.7 [6]	8.8	N/A										◆
Escape / Mariner (11) / MKC (15-19)	Rear	2.6 [4]	ATC	N/A	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Ranger (C and E)	Rear	3.7 C / 3.0 E	M220	N/A										◆
Ranger (4WD)	Front	2.1 [6]	M190	N/A										◆
Expedition / Navigator (C)	Rear	4.3	9.75	N/A	●	●	●	●	●	●	●	●	●	●
Expedition / Navigator (LS)	Rear	4	9.75	XL-3	●	●	●	●	●	●	●	●	●	●
Expedition / Navigator	Front	3.6 [6]	8.8	N/A	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Expedition / Navigator (C)	Rear	5	9.75	N/A										◆
Expedition / Navigator (LS)	Rear	4	9.75	XL-3										◆
Expedition / Navigator (ELS)	Rear	5 [5]	9.75	XL-3										◆
Expedition (C)	Rear	4	8.8	N/A										◆
Expedition / Navigator (C, LS)	Front	3.5 [6]	8.8	XL-3 for LS										◆
F-150 (E)	Rear	6	9.75	N/A	●	●	●	●	●	●	●	●	●	●
F-150 (C, LS)	Rear	5.5 C / 6 LS	9.75/8.8	XL-3 for LS	●	●	●	●	●	●	●	●	●	●

Continued on next page

# Motorcraft® Axle Lubricants – Quick Reference Lubricant Applications and Capacities Chart – cont'd

Application	Axle Location	Fluid Refill (Pints) [1]	Axle Description	Friction Modifier [2]	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>TRUCKS – CONT'D</b>														
F-150 (C, E)	Rear	4.6/4	9.75/8.8	N/A										
F-150 (C)	Front	3.6 [6]	8.8	N/A	◆									
F-150 Raptor (LS)	Rear	3.5	8.8	XL-3 for LS	●									
F-150 Raptor (C, E)	Rear	5.6	9.75	N/A										
F-150 Raptor (LS)	Front	3.5 (12-14)/3.2 [2] [6]	8.8	XL-3	◆									
F-250 / 350 (C, E)	Rear	7.0 C / 6.8 E	10.5	N/A	●									
F-250 / 350 / 450 / 550 (C)	Front	6.4 (17) / 5.6 [6]	M60 (M248)	N/A (19) / XL-3 for LS	◆									
F-350 (All)	Rear	8.4	M80 (M286)	N/A	●									
F-350 / 550 (Diesel)	Rear	7.6	M300	XL-3 for LS [3]								●	●	●
F-350 / 550 (Gas)	Rear	7.6	M300	XL-3 for LS [3]								◆	◆	◆
F-350 / 550 (Diesel)	Rear	7.2	M275	N/A								●	●	●
F-450 / 550 (All)	Rear	14.0	S110/S130	N/A	●									
Transit	Rear	6.3	9.75	XL-3 for LS [7]										
E-150 / E-250 / 350 (C)	Rear	5.9	M60 (M248)	N/A	◆									
E-150 / E-250 / 350 (LS)	Rear	5.8	M60 (M248)	XL-3 [3]	●									
E-250 / 350 (All) (DSO)	Rear	5.9	M60 (M248)	[3] XL-3 for LS	●									
E-350 Chassis / RV / Cutaway (C)	Rear	6.6	M70FF (M267FF)	N/A	◆									
E-350 Chassis / RV / Cutaway (LS)	Rear	6.6	M70FF (M267FF)	N/A	●									
E-450 Chassis / RV / Cutaway (C)	Rear	9.0	M70HD (M273HD)	N/A	◆									
E-450 Chassis / RV / Cutaway (LS)	Rear	9.0	M70HD (M273HD)	N/A	●									
F-53 Motorhome, F-59 Chassis (C)	Rear	8.0 (04) 8.4	M80 (M286)	N/A	●									
F-53 Motorhome, F-59 Chassis (All)	Rear	14.0	S110/S130	N/A	●									
F-53 Motorhome, F-59 Chassis (All)	Rear	32.0	17060S	N/A	●									

**Notes:**

- [1] Oil refill volume does not include friction modifier. Do not overfill above volumes shown (friction modifier should be added first)
- [2] 4 fl. oz. of friction modifier added unless otherwise specified
- [3] Add 8 fl. oz. of friction modifier
- [4] XY-75W140-QL, WSL-M2C192-A, SAE 75W-140 Synthetic Rear Axle Lubricant for PTU. Check owner guide or shop manual for fill capacity.
- [5] Hydraulic control unit requires 0.36 pts MERCON ULV, XT-12-QLV manual for fill capacity.
- [6] XT-10-QLVC, MERCON® LV, for all transfer cases. Check owner guide or shop manual for fill capacity.
- [7] Do not add more than 4 fl. oz. of friction modifier
- [8] Pentosin CHF 11S Synthetic Hydraulic Fluid for the Active-Torque-Coupling System. Fill plug on top of the RDU. Do not put in differential case
- [9] XY-75W85-QL, WSS-M2C942-A, SAE-75W-85 Synthetic Hypoid Gear Lubricant for the PTU

- ◆ XY-80W90-QL, WSP-M2C197-A, SAE 80W-90 Premium Rear Axle Lubricant
- XY-75W140-QL, WSL-M2C192-A, SAE 75W-140 Synthetic Rear Axle Lubricant
- XY-75W85-QL, WSS-M2C942-A, SAE-75W-85 Synthetic Hypoid Gear Lubricant
- ▲ XY-75W-QL, Disconnect Rear Drive Unit Fluid
- XL-3, EST-M2C118-A, Additive Friction Modifier
- XL-19, Gear Oil Additive

C = Conventional Axle  
 LS = Limited Slip Axle  
 FF = Full Floating  
 SF = Semi-Floating  
 HD = Heavy Duty  
 E = Electronic Locking Differential  
 ATC = Active Torque Coupling RDU  
 TVR = Torque Vectoring RDU  
 ELS = Electronic Limited Slip  
 (XX) = The last model year used  
 [X] = Notes  
 M&S prefix axle descriptions = Dana Axles  
 Numeric descriptions = Ford/Visteon Axles

When filling a Limited Slip axle requiring Friction Modifier, always add Friction Modifier first, before filling with the lubricant.



## Motorcraft® Power Unit (eDrive) Assy Lubricants – Quick Reference Lubricant Applications and Capacities Chart

VEHICLE	AXLE LOCATION	FLUID REFILL QTS (LTRS)	MODEL YEAR									
			2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>SUV</b>												
Mustang Mach E (Base AWD) (MY21 ONLY)	Front	0.92 (0.875)										■
Mustang Mach E (Base AWD) (MY22-)	Front	0.92 (0.875)										LV
Mustang Mach E (All)	Rear	4.07 (3.85)										ULV
Mustang Mach E (GT AWD)	Front	3.43 (3.25)										ULV
Corsair PHEV (RWD) (MY21-22 AE Level Suffix)	Rear	1.03 (0.975)										■
Corsair PHEV (RWD) (MY22 AF Level Suffix)	Rear	1.03 (0.975)										LV
<b>TRUCKS</b>												
F150 Lightning	Front	4.0 (3.79)										ULV
F150 Lightning	Rear	4.76 (4.5)										ULV
eTransit	Rear	4.07 (3.85)										ULV

Note: None of the Electric Drive Assemblies will use friction modifiers.

■	<b>SAE 75W-85 Synthetic Hypoid Gear Lubricant</b> Part number XY-75W85-QL, Ford Specification WSS-M2C942-A
<b>ULV</b>	<b>MERCON® ULV</b> Part number XT-12-QLV (Quarts)
<b>LV</b>	<b>MERCON® LV</b> Part number XT-10-QLVC (Quarts)

# Automatic Transmission Fluid Chart

## TRANSMISSIONS

TYPE	MODEL YEAR	5R110 TORQ SHIFT (See Note 1)	4R70W / 4R70E (See Note 1)	5R55 N/W/S 5R35E / 4R44E / 5R44E	6R60 / 6R75	6R140 TORQ SHIFT6	6R80 / 6R75	6R100 / 6R140	10R60 / 10R80MHT / 10R140	10R60 / 10R80MHT / 10R140	TR-9070 DCT	TYPE	MODEL YEAR
	2003												
	2004												
	2005												
	2006												
	2007												
	2008												
	2009												
	2010												
	2011												
	2012												
	2013												
	2014												
	2015												
	2016												
	2017												
	2018												
	2019												
	2020												
	2021												
	2022												
TYPE	MODEL YEAR	5R110 TORQ SHIFT (See Note 1)	4R70W / 4R70E (See Note 1)	5R55 N/W/S 5R35E / 4R44E / 5R44E	6R60 / 6R75	6R140 TORQ SHIFT6	6R80 / 6R75	6R100 / 6R140	10R60 / 10R80MHT / 10R140	10R60 / 10R80MHT / 10R140	TR-9070 DCT	TYPE	MODEL YEAR
	2003												
	2004												
	2005												
	2006												
	2007												
	2008												
	2009												
	2010												
	2011												
	2012												
	2013												
	2014												
	2015												
	2016												
	2017												
	2018												
	2019												
	2020												
	2021												
	2022												

## TRANSAXLES

TYPE	MODEL YEAR	4F20E (AX0DE) (4EAT) CD4E	4F27E (See Note 1)	4F20E / AX4S (AX0DE)	4F50N (AX4N)	CVT	6 SPEED AUTO AWF-21	AW ECVT	6F50N / 55N	6F35N DP56	HF35 Hybrid	6F15 (See Note 2)	75SPD DCT	8F35 / 40 / 57	HF45 Hybrid / 8F24	TYPE	MODEL YEAR	
	2003																	
	2004																	
	2005																	
	2006																	
	2007																	
	2008																	
	2009																	
	2010																	
	2011																	
	2012																	
	2013																	
	2014																	
	2015																	
	2016																	
	2017																	
	2018																	
	2019																	
	2020																	
	2021																	
	2022																	
TYPE	MODEL YEAR	4F20E (AX0DE) (4EAT) CD4E	4F27E (See Note 1)	4F20E / AX4S (AX0DE)	4F50N (AX4N)	CVT	6 SPEED AUTO AWF-21	AW ECVT	6F50N / 55N	6F35N DP56	HF35 Hybrid	6F15 (See Note 2)	75SPD DCT	8F35 / 40 / 57	HF45 Hybrid / 8F24	TYPE	MODEL YEAR	
	2003																	
	2004																	
	2005																	
	2006																	
	2007																	
	2008																	
	2009																	
	2010																	
	2011																	
	2012																	
	2013																	
	2014																	
	2015																	
	2016																	
	2017																	
	2018																	
	2019																	
	2020																	
	2021																	
	2022																	

Specific service fluids (listed to the right) are called for depending on the type of transmission and the year the transmission was built. It is important to use the correct fluid. Each fluid exhibits different properties and should be used only in the transmission for which they were designed. The vehicle owner or rebuilder should use the type of fluid indicated in the above chart, shown in the owners guide or workshop manual, or the automatic transmission fluid level indicator. Refer to your scheduled maintenance guide to determine the correct service interval. Failure to use the recommended fluid may affect transmission performance and durability.

Due to fluid recommendation changes approved by Ford Motor Company, some older owner guides, workshop manuals and fluid level indicators may not show the same fluid as the above chart. For those application service with the fluid shown in this above chart.

**CAUTION:**

DO NOT USE SUPPLEMENTAL TRANSMISSION FLUID ADDITIVES, TREATMENTS OR CLEANING AGENTS. The use of these materials may affect transmission operation and result in damage to internal transmission components.

**CAUTION:**

The fluids listed to the right are unique fluids and MUST be used in applications recommending that particular fluid. Use of any other fluid may cause reduced functionality or transmission damage.

**CAUTION:**

The functional characteristics of fluids for the CVT transmissions are very different than those of other ATF's. Use of a fluid other than Motorcraft® Continuously Variable Chain Type Transmission Fluid or one labeled as meeting Ford specification WSS-M2C933-A may cause severe transmission damage.

**Note 1:** Ford authorizes back servicing these transmissions with MERCON® LV for complete refill and top off. See SSM 21114 for 5R110 transmissions.

**Note 2:** 2016-18 Focus service with MERCON® LV, 2018 and forward Ecosport service with MERCON® ULV.

- V** MERCON® V  
Part number XT-5-QMC (Quarts) and XT-5-DMC (55 Gallon Drum). Ford Specification MERCON® V
- SP** MERCON® SP  
Part number XT-6-QSP (Quarts) and XT-6-DSP (55 Gallon Drum). Ford Specification MERCON® SP
- CVT** Continuously Variable Chain Type  
Part number XT-7-QCFT (Quarts)
- P** Premium Automatic Transmission Fluid  
Part number XT-8-QAW
- LV** MERCON® LV  
Part number XT-10-QLVC (Quarts)
- DCT** Dual Clutch Transmission Fluid  
Part number XT-11-QDC (Quarts)
- ULV** MERCON® ULV  
Part number XT-12-QULV (Quarts). Ford Specification MERCON® ULV
- GT** Motorcraft® Ford GT Supercar Transaxle Lubricant  
Part Number XT-75W90-QSC (Quarts)
- 500** Motorcraft® Ford GT Supercar Clutch Fluid  
Part Number XL-20 (Liters)
- 500** GT 500 Dual Clutch Transmission Fluid  
Part number XT-14-L (1 liter)

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# Automatic Transmission Fluid Chart

VEHICLE	TRANSMISSION TYPE	ENGINE	MODEL YEAR																	
			2013	2014	2015	2016	2017	2018	2019	2020	2021	2022								
Aviator / Hybrid	10R60 / 80 / MHT	3.0L EB																		
Bronco Sport	8F35	1.5L EB / 2.0L EB																		
Bronco	10R60	2.3L EB / 2.7L EB																		
Chassis Cab, Stripped Chassis, Motorhome	5R110	6.8L	LV	LV	LV	LV														
Chassis Cab, Stripped Chassis, Motorhome	6R140	6.8L (17-19) / 7.3 (20-)											LV	LV	LV	LV	LV	LV	LV	LV
C-Max Hybrid	HF35 Hybrid	2.0L	LV	LV	LV	LV														
Continental	6F50 / 55	2.7L EB / 3.0L EB / 3.7L (20)																		
Corsair	8F35 / 40	2.0L EB / 2.3L EB																		
Corsair Hybrid	HF45 Hybrid	2.5L																		
Ecosport	6F15	1.0L EB																		
Ecosport	6F35N	2.0L																		
Edge	6F50 / 55	3.5L / 3.7L (11-14) / 2.7L EB (15-18)	LV	LV	LV	LV														
Edge	6F35N	2.0L EB	LV	LV	LV	LV														
Edge	8F57	2.7L EB																		
Edge	8F35 / 40	2.0L EB																		
Escape	6F35N	2.5L / 3.0L (12) / 1.6L EB (13-16) / 2.0L EB (13-) / 1.5L EB (17-)	LV	LV	LV	LV														
Escape	8F24 / 35 / 40	1.5L EB / 2.0L EB																		
Escape Hybrid	HF45 Hybrid	2.5L																		
Escape Hybrid	AW ECVT	2.5L																		
E-Series	5R110	6.0L Diesel (10) / 6.8L / 5.4L (15-16)	LV	LV	LV	LV														
E-Series	4R70 / 75W / E	4.6L / 5.4L	LV	LV	LV	LV														
E-Series	6R140	6.8L (19) / 5.4L (16) / 6.2L (17-19) / 7.3L (21-)	LV	LV	LV	LV														
Expedition	6R80	5.4L (14) / 3.5L EB (15-17)	LV	LV	LV	LV														
Expedition	10R80	3.5L EB																		
Explorer / Police Utility (13-)	6F50 / 55	3.5L / 3.5L EB (13-) / 3.7L (13-)	LV	LV	LV	LV														
Explorer / Police Utility (13-)	6F35N	2.0L EB (15) / 2.3L EB (15-)	LV	LV	LV	LV														
Explorer / Police Utility / HEV	10R60 / 80 / 80MHT	2.3L EB / 3.0L EB / 3.3L																		
F Series Super Duty 650-750	6R140	6.7L Diesel / 6.8L	LV	LV	LV	LV														
F Series Super Duty 650-750	6R140	6.7L Diesel / 7.3L																		
F Series Super Duty 250-550	5R110	6.8L	LV	LV	LV	LV														
F Series Super Duty 250-550	6R140	6.7L Diesel / 6.2L / 6.8L	LV	LV	LV	LV														
F Series Super Duty 250-550	6R100	6.8L (17-19) / 6.2L																		

continued on next page

## Automatic Transmission Fluid Chart – cont'd

VEHICLE	TRANSMISSION TYPE	ENGINE	MODEL YEAR																	
			2013	2014	2015	2016	2017	2018	2019	2020	2021	2022								
F Series Super Duty 250-600	10R140	6.7L Diesel / 6.2L / 7.3L																		
F-150	6R80	4.6L (10) / 5.4L (10) / 6.2L (10-14)	LV	LV																
F-150	6R80	5.0L (11-18) / 3.5L (15-17) / 2.7L EB (15-18) / 3.3L (18-20)	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV
F-150	6R80	3.5L EB (11-16) / 3.7L (11-14)	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV
F-150 / Raptor / Police (18-20)	10R80	3.5L EB																		
F-150 / Police (18-20)	10R80	2.7L EB / 3.3L / 3.0L Diesel / 5.0L																		
F-150 HEV	10R80 MHT	3.5L																		
Fiesta	DPS6	1.6L / 1.0L EB	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT
Flex	6F50 / 55	3.5L / 3.5L EB	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV
Focus	DPS6	2.0L / 1.0L EB (15)	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT	DCT
Focus	6F15	1.0L EB																		
Ford GT	7 SPD DCT	3.5L EB																		
Fusion	6F35N / 6F50N (17-) / 6F55N (17-)	2.5 L / 3.0L (12) / 1.5L EB (13-) / 1.6L EB (13-14) / 2.0L EB (13-)	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV
Fusion Hybrid / Police Sedan (20-)	HF35 Hybrid	2.0L	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV
MKC	6F35N	2.0L EB / 2.3L EB																		
MKS	6F50 / 55	3.5LEB / 3.5L / 3.7L	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV
MKT	6F50 / 55	3.5L EB / 3.7L	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV
MKT	6F35N	2.0L EB																		
MKX	6F50 / 55	3.5L (10) / 3.7L (11-18)	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV
MKZ	6F50 / 55	3.7L (13-16) / 3.0L EB (17-)	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV
MKZ	6F35N	2.0L EB																		
MKZ Hybrid	HF35 Hybrid	2.0L																		
Maverick	HF45/8F35	2.5L / 2.0L EB																		
Mustang	6R80	3.7L / 5.0L / 2.3L EB (15-17)																		
Mustang	10R80	5.0L / 2.3L EB	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV
Mustang GT500	TR-9070 DCT	5.2L																		
Nautilus	8F57	2.7L EB																		
Nautilus	8F35/40	2.0L EB																		
Navigator	6R80	5.4L (14) / 3.5L EB (15-17)	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV
Navigator	10R80	3.5L EB																		
Ranger	10R80	2.3L EB																		
Taurus / Police Sedan (13-19)	6F35N	2.0L EB	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV
Taurus / Police Sedan (13-19)	6F50 / 55	3.5L / 3.5L EB / 3.7L (13-19)	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV

continued on next page

## Automatic Transmission Fluid Chart – cont'd

VEHICLE	TRANSMISSION TYPE	ENGINE	MODEL YEAR														
			2013	2014	2015	2016	2017	2018	2019	2020	2021	2022					
Transit Connect	4F27E	2.0L	LV														
Transit Connect	6F35N	1.6L EB (16) / 2.5L		LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV
Transit Connect	8F35 / 40	2.0L															
Transit	6R80	3.5L EB / 3.7L (19) / 3.2L Diesel		LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV	LV
Transit	10R80	3.5L / 3.5LEB															

**LV****MERCON® LV**

Part numbers; XT-10-QLVC (Quarts), XT-10-6GLV (6 Gallon Box) and XT-10-DLV (55 Gallon Drum) Ford Specification is MERCON® LV

**DCT****Dual Clutch Transmission Fluid**

Part number XT-11-QDC (Quarts), Ford Specification WSS-M2C200-D2

**ULV****MERCON® ULV**

Part number XT-12-QLV (Quarts)

**Motorcraft® Ford GT Supercar Transaxle Lubricant**

Part Number XT-75W90-QSC

**Motorcraft® Ford GT Supercar Clutch Fluid**

Part Number XL-20

**GT 500 Dual Clutch Transmission Fluid**

Part Number XT-14-L (1 liter)

**500**



# Manual Transmission Fluid Chart

## TRANSAXLES

TYPE MODEL YEAR	SEE NOTE1 F5M G5M	MFA60	SEE NOTE2 FSM G5M	MTX75	IB5	G6M	MMTG B6
2002	F5		V				
2003					DCT or Fs		
2004							
2005							
2006				DCT or Fs			
2007	Fs						
2008							
2009		Fs					
2010							
2011							
2012							
2013					DCT or Fs		
2014							
2015				DCT			
2016							
2017							
2018					DCT		
2019							
2020							
2021							
MODEL YEAR TYPE	SEE NOTE1 F5M G5M	MFA60	SEE NOTE2 FSM G5M	MTX75	IB5	G6M	MMTG B6

## TRANSMISSIONS

TYPE MODEL YEAR	T45/T50D (O1)	M5HD M5O/D	SEE NOTE3 ZF6S	TR3650	M5	GT6 SPEED TRANS.	MT-82	MT-88	TR6060	TR3160
2002						V				
2003										
2004										
2005										
2006						GT				
2007										
2008										
2009										
2010									V	
2011										
2012										
2013										
2014										
2015										
2016										
2017										
2018										
2019										
2020										
2021								DCT		
TYPE MODEL YEAR	T45/T50D (O1)	M5HD M5O/D	SEE NOTE3 ZF6S	TR3650	M5	GT6 SPEED TRANS.	MT-82	MT-88	TR6060	TR3160

NOTE 1: 1989 - 1997 Probe, 2001 - 2004 Escape, 2006 - 2009 Fusion/Milan

NOTE 2: Escort/Tracer

NOTE 3: 2008 - 2009 Service diesel vehicles with Full Synthetic Manual Transmission Fluid

**V** **MERCON® V**

- Part number XT-5-QMC (Quarts) and XT-5-DMC (55 Gallon Drum)

**Ms** **MERCON® V SYNTHETIC BLEND ATF**

- Part number XT-5-QSM (Quarts)

**Fs** **FULL SYNTHETIC MANUAL TRANSMISSION FLUID**

- Part Number XT-M5-QS (Quarts), Ford Specification WSS-M2C200-C

**GT** **SAE 75W-90 PREMIUM SYNTHETIC TRANSAXLE LUBRICANT**

- Part number XT-75W90-QGT (Quarts)

**DCT** **DUAL CLUTCH TRANSMISSION FLUID**

- Part number XT-11-QDC (Quarts), Ford Specification WSS-M2C200-D2

**LV** **MERCON® LV**

- Part number XT-10-QLVC (Quarts) and XT-10-DLVC (55 Gallon Drum)

## USA AND CANADA OIL AND TRANSMISSION FLUID PART NUMBER INTERCHANGE

COMMERCIAL NAME	SERVICE PART NUMBER U.S.	SERVICE PART NUMBER CANADA
MERCON® V (QUARTS)	XT-5-QMC	CXT-5-LM6
SYNTHETIC BLEND MERCON® V (QUARTS)	XT-5-QSM	XT-5-QSM
MERCON® V (DRUMS)	XT-5-DMC	CXT-5-DCM
MERCON® LV (QUARTS)	XT-10-QLVC	CXT-10-LV6
MERCON® LV (DRUMS)	XT-10-DLVC	CXT-10-DCLV
FULL SYNTHETIC MANUAL TRANSMISSION FLUID (QUARTS)	XT-M5-QS	XT-M5-QS
MERCON® SP (QUARTS)	XT-6-QSP	CXT-6-LSP6
PREMIUM AUTOMATIC TRANSMISSION FLUID	XT-8-QAW	CXT-8-LAW6
*** CVT FLUID CHAIN TYPE	XT-7-QCFT	XT-7-QCFT
SAE 75W-90 PREMIUM SYNTHETIC TRANSAXLE LUBRICANT	XT-75W90-QGT	XT-75W90-QGT
DUAL CLUTCH TRANSMISSION FLUID	XT-11-QDC	XT-11-QDC
MERCON® ULV (QUARTS)	XT-12-QLVL	XT-12-QLVL
SAE 75W-90 FORD GT SUPERCAR TRANSAXLE LUBRICANT	XT-75W90-QSC	XT-75W90-QSC
FORD GT SUPERCAR CLUTCH FLUID	XL-20	XL-20
GT500 DUAL CLUTCH TRANSMISSION FLUID	XT-14-L	XT-14-L

\*\*\* Continuously variable chain type transmission fluid

## A/C REFRIGERANT USAGE CHART

VEHICLE <sup>2</sup>	MODEL YEAR <sup>1</sup>					
	2017	2018	2019	2020	2021	2022
AVIATOR / AVIATOR HYBRID						
BRONCO / BRONCO SPORT						
C-MAX HYBRID						
CONTINENTAL						
CORSAIR / CORSAIR HYBRID						
ECONOLINE (E-SERIES)						
ECOSPORT						
EDGE						
ESCAPE / ESCAPE HYBRID						
EXPEDITION						
EXPLORER / EXPLORER HYBRID						
F-150 / F-150 HYBRID / F-150 LIGHTNING						
F-150 RAPTOR						
F-250, F-350, F-450, AND F-550						
F-650 AND F-750						
FIESTA						
FLEX						
FOCUS / FOCUS ELECTRIC						
FUSION / FUSION HYBRID						
GT						
MAVERICK / MAVERICK HYBRID						
MKC						
MKT						
MKX						
MKZ / MKZ HYBRID						
MOTORHOME						
MUSTANG / MUSTANG MACH-E						
MUSTANG SHELBY GT350 AND SHELBY GT500						
NAUTILUS						
NAVIGATOR						
RANGER						
TAURUS						
TRANSIT / E-TRANSIT						
TRANSIT CONNECT						
ALL OTHER VEHICLES, N.O.S.						

<sup>1</sup> All 1999 - 2016 Ford, Lincoln, and Mercury vehicles are equipped with R-134a refrigerant.

<sup>2</sup> The refrigerant usage applies to all models of a vehicle unless otherwise specified.

**KEY:**

R-134a Refrigerant: YN-19 (USA) and CYN-19-R (Canada)	
R-1234yf Refrigerant: YN-33-A (USA) and HS7Z-19B519-BA (Canada)	

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For the most up-to-date information, please refer to the chart at <https://www.fcsdchemicalsandlubricants.com/Home/QuickReferenceCharts>

# A/C REFRIGERANT COMPRESSOR OIL USAGE CHART

VEHICLE	MODEL YEAR														
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
AVIATOR															
AVIATOR HYBRID															
BRONCO / BRONCO SPORT															
C-MAX HYBRID															
CONTINENTAL															
CORSAIR															
CORSAIR HYBRID															
E-TRANSIT															
ECONOLINE (E-SERIES)															
ECOSPORT															
EDGE															
ESCAPE															
ESCAPE HYBRID															
EXPEDITION															
EXPLORER															
EXPLORER HYBRID															
F-150															
F-150 HYBRID / F-150 LIGHTNING															
F-150 RAPTOR															
F-250, F-350, F-450, AND F-550															
F-650 AND F-750															
FIESTA															
FLEX															
FOCUS															
FOCUS ELECTRIC															
FUSION															
FUSION HYBRID															
GT															
MARINER															
MARINER HYBRID															
MAVERICK															
MAVERICK HYBRID															
MILAN															
MILAN HYBRID															
MKC															
MKS															
MKT															
MKX															
MKZ															



## A/C REFRIGERANT COMPRESSOR OIL USAGE CHART – continued

VEHICLE	MODEL YEAR														
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
MKZ HYBRID															
MOTORHOME															
MUSTANG															
MUSTANG MACH-E															
MUSTANG SHELBY GT350 AND SHELBY GT500															
NAUTILUS															
NAVIGATOR															
RANGER															
TAURUS															
TRANSIT															
TRANSIT CONNECT															
ALL OTHER VEHICLES, N.O.S.															

Note: The compressor oil usage applies to all models of a vehicle unless otherwise specified.

**KEY:**

MOTORCRAFT® PAG REFRIGERANT COMPRESSOR OIL, YN-12-D	
MOTORCRAFT® HEAVY TRUCK PAG REFRIGERANT COMPRESSOR OIL, YN-24	
MOTORCRAFT® ELECTRIC A/C COMPRESSOR OIL, YN-32	
MOTORCRAFT® R-1234YF REFRIGERANT POE OIL, YN-34	
MOTORCRAFT® R-1234YF REFRIGERANT PAG OIL, YN-35	

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For the most up-to-date information, please refer to the chart at <https://www.fcsdchemicalsandlubricants.com/Home/QuickReferenceCharts>

Motorcraft® Engine Antifreeze/Coolants - Usage Chart (Model Years 2018 and forward)			
Vehicle	Model Year		
	2018	2019	2020 and forward
<b>FORD</b>			
Bronco / Bronco Sport	N/A	N/A	DY
C-MAX Hybrid	DY / O	N/A	N/A
Econoline (E-Series)	DY / O	DY / O (prior to 7/16/18) DY (from 7/16/18)	DY
EcoSport	DY / O	DY / O	DY / O
Edge	DY / O	DY / O (prior to 7/8/19) DY (from 7/8/19)	DY
Escape (including Hybrid)	DY / O	DY / O	DY / O (prior to 1/2/20) DY (from 1/2/20)
Expedition	DY / O (prior to 7/9/18) DY (from 7/9/18)	DY	DY
Explorer (including Hybrid)	DY / O	DY / O	DY
F-150 (including Hybrid and Raptor)	DY / O	DY / O (prior to 1/1/19) DY (from 1/1/19)	DY
F-250 - F-550	DY / O (prior to 7/9/18) DY (from 7/9/18)	DY / O (prior to 7/9/18) DY (from 7/9/18)	DY
F-650 - F-750	DY / O	DY / O (prior to 7/16/18) DY (from 7/16/18)	DY
Fiesta	DY / O	DY / O	N/A
Flex	DY / O	DY / O (prior to 7/8/19) DY (from 7/8/19)	N/A
Focus / Focus Electric	DY / O	N/A	N/A
Fusion (including Hybrid)	DY / O	DY / O	DY / O (prior to 1/6/20) DY (from 1/6/20)
GT	DY / O	DY / O	DY / O (prior to 2/20/20) DY (from 2/20/20)
Motorhome F-53 / F-59	DY / O	DY / O	DY
Mustang (including Mach-E, Shelby GT350 and Shelby GT 500)	DY / O	DY / O	DY / O (prior to 1/2/20) DY (from 1/2/20)
Ranger	N/A	DY / O (prior to 7/8/19) DY (from 7/8/19)	DY
Taurus	DY / O	DY / O	N/A
Transit	DY / O	DY / O (prior to 1/1/19) DY (from 1/1/19)	DY
Transit Connect	DY / O	DY / O	DY / O
All other vehicles not otherwise noted	N/A	N/A	DY
<b>LINCOLN</b>			
Aviator (including Hybrid)	N/A	N/A	DY
Continental	DY / O	DY / O	DY / O (prior to 1/2/20) DY (from 1/2/20)
Corsair (including Hybrid)	N/A	N/A	DY / O (prior to 1/2/20) DY (from 1/2/20)
MKC	DY / O	DY / O	N/A
MKT	DY / O	DY / O (prior to 7/8/19) DY (from 7/8/19)	N/A
MKX	DY / O	N/A	N/A
MKZ (including Hybrid)	DY / O	DY / O	DY / O (prior to 1/6/20) DY (from 1/6/20)
Nautilus	N/A	DY / O (prior to 7/8/19) DY (from 7/8/19)	DY
Navigator	DY / O (prior to 7/9/18) DY (from 7/9/18)	DY	DY
All other vehicles not otherwise noted	N/A	N/A	DY

**Notes:**

The engine antifreeze/coolant usage noted in the chart above applies to all engine types (e.g., gasoline and diesel) available for a particular vehicle.

DY / O = Either yellow-colored engine coolant approved to Ford specification WSS-M97B57-A1 or WSS-M97B57-A2 (Motorcraft® Yellow Antifreeze/Coolant), orange-colored engine coolant approved to Ford specification WSS-M97B44-D or WSS-M97B44-D2 (Motorcraft® Orange Antifreeze/Coolant), or a combination of both engine coolants

DY = Yellow-colored engine coolant approved to Ford specification WSS-M97B57-A1 or WSS-M97B57-A2 (Motorcraft® Yellow Antifreeze/Coolant)

For more service information on using Motorcraft® Yellow Antifreeze/Coolant with/in place of Motorcraft® Orange Antifreeze/Coolant, please visit <https://www.fcsdchemicalsandlubricants.com/Home/QuickReferenceCharts>

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## Motorcraft® Engine Antifreeze/Coolants - Usage Chart (Model Years prior to 2018)

Vehicle	Model Year(s)									
	Pre-1999	1999-2001	2002	2003	2004-2008	2009	2010	2011	2012	2013-2017
<b>FORD</b>										
C-MAX Hybrid	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DY / O
Crown Victoria	G	G	G	G (prior to 7/15/02) Y (from 7/15/02)	Y	Y	Y	Y	N/A	N/A
Econoline (E-Series)	G	G	G (prior to 1/7/02) Y (from 1/7/02)	Y	Y	Y	Y	Y	Y	Y (2013 - 2016 and 2017 prior to 6/24/16) DY / O (2017 from 7/11/16)
Edge	N/A	N/A	N/A	N/A	Y	Y (prior to 1/19/09) DY / DG (from 1/19/09)	DY / DG	DY / DG (prior to 7/11/11) DY / O (from 7/11/11)	DY / O	DY / O
Escape (including Hybrid)	N/A	G	G (prior to 7/15/02) Y (from 7/15/02)	Y	Y	Y	Y	Y (prior to 11/16/10) DY / O (from 11/16/10)	DY / O	DY / O
Escort	G	G	G (prior to 7/15/02) Y (from 7/15/02)	Y	N/A	N/A	N/A	N/A	N/A	N/A
Excursion	N/A	G	Y	Y	Y	N/A	N/A	N/A	N/A	N/A
Expedition	G	G	G	G (prior to 7/15/02) Y (from 7/15/02)	Y	Y	Y (prior to 2/22/10) DY / O (from 2/22/10)	DY / O	DY / O	DY / O
Explorer, Explorer Sport, and Explorer Sport Trac	G	G	G (prior to 7/15/02) Y (from 7/15/02)	Y	Y	Y	Y	DY / DG (prior to 7/11/11) DY / O (from 7/11/11)	DY / O	DY / O
F-150 - F-550 (Cuautitlan Plant)	G	G	G (prior to 2/4/02) Y (from 2/4/02)	Y	Y	Y	N/A	N/A	N/A	N/A
F-250 - F-550 (Kentucky Truck Plant)	G	G	Y	Y	Y	Y	Y	DY / O	DY / O	DY / O
F-150 - F-550 (All other plants)	G	G	G (prior to 7/15/02) Y (from 7/15/02)	Y	Y	Y	Y	DY / O	DY / O	DY / O
Fiesta	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DY / O	DY / O	DY / O
Flex	N/A	N/A	N/A	N/A	N/A	Y (prior to 1/19/09) DY / DG (from 1/19/09)	DY / DG	DY / DG	DY / DG (prior to 7/11/11) DY / O (from 7/11/11)	DY / O
Freestar	N/A	N/A	N/A	N/A	Y	N/A	N/A	N/A	N/A	N/A
Focus (including RS)	N/A	G	G (prior to 7/15/02) Y (from 7/15/02)	Y	Y	Y	Y	Y	DY / O	DY / O
Focus Electric	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DY / O	DY / O
Fusion (including Hybrid)	N/A	N/A	N/A	N/A	Y	Y	Y (prior to 7/6/09) DY / DG (from 7/6/09)	DY / DG	DY / DG (prior to 8/15/11) DY / O (from 8/15/11)	DY / O
Motorhome F-53 / F-59	G	G	Y	Y	Y	Y	Y	Y	Y	Y (2013 - 2014) DY / O (2015 - 2017)
Mustang (including Cobra, Shelby GT500, Boss 302, etc.)	G	G	G (prior to 7/15/02) Y (from 7/15/02)	Y	Y	Y	Y	DY / O	DY / O	DY / O
Ranger	G	G	G (prior to 7/15/02) Y (from 7/15/02)	Y	Y	Y	Y	Y	N/A	N/A
Ranger Electric	N/A	G	G	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Taurus	G	G	G (prior to 7/15/02) Y (from 7/15/02)	Y	Y	Y (prior to 5/18/09) DY / DG (from 5/18/09)	DY / DG	DY / DG (prior to 7/11/11) DY / O (from 7/11/11)	DY / O	DY / O
Thunderbird	N/A	N/A	G (prior to 7/15/02) Y (from 7/15/02)	Y	Y	N/A	N/A	N/A	N/A	N/A
Transit Connect	N/A	N/A	N/A	N/A	N/A	N/A	DY / O	DY / O	DY / O	DY / O
Windstar	G	G	G	G (prior to 7/15/02) Y (from 7/15/02)	N/A	N/A	N/A	N/A	N/A	N/A
All other vehicles not otherwise noted	G	G	N/A	N/A	Y	Y	N/A	N/A	N/A	DY / O

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Continued on next page

## Motorcraft® Engine Antifreeze/Coolants - Usage Chart (Model Years prior to 2018)

Vehicle	Model Year(s)									
	Pre-1999	1999-2001	2002	2003	2004-2008	2009	2010	2011	2012	2013-2017
<b>LINCOLN</b>										
Aviator	N/A	N/A	N/A	Y	Y	N/A	N/A	N/A	N/A	N/A
Blackwood	N/A	N/A	G (prior to 7/15/02) Y (from 7/15/02)	Y	N/A	N/A	N/A	N/A	N/A	N/A
Continental	G	G	G (prior to 7/15/02) Y (from 7/15/02)	N/A	N/A	N/A	N/A	N/A	N/A	DY / O (2017)
LS	N/A	G	G (prior to 7/15/02) Y (from 7/15/02)	Y	Y	N/A	N/A	N/A	N/A	N/A
MKS	N/A	N/A	N/A	N/A	N/A	Y (prior to 5/18/09) DY / DG (from 5/18/09)	Y (prior to 5/18/09) DY / DG (from 5/18/09)	DY / DG (prior to 7/11/11) DY / O (from 7/11/11)	DY / O	DY / O
MKT	N/A	N/A	N/A	N/A	N/A	N/A	DY / DG	DY / DG (prior to 7/11/11) DY / O (from 7/11/11)	DY / DG (prior to 7/11/11) DY / O (from 7/11/11)	DY / O
MKX	N/A	N/A	N/A	N/A	Y	Y (prior to 1/19/09) DY / DG (from 1/19/09)	DY / DG	DY / DG (prior to 7/11/11) DY / O (from 7/11/11)	DY / O	DY / O
MKZ (including Hybrid)	N/A	N/A	N/A	N/A	Y	Y	Y (prior to 7/6/09) DY / DG (from 7/6/09)	DY / DG	DY / DG (prior to 8/15/11) DY / O (from 8/15/11)	DY / O
Navigator	G	G	G	G (prior to 7/15/02) Y (from 7/15/02)	Y	Y	Y (prior to 2/22/10) DY / O (from 2/22/10)	DY / O	DY / O	DY / O
Town Car	G	G	G	G (prior to 7/15/02) Y (from 7/15/02)	Y	Y	Y	Y	N/A	N/A
All other vehicles not otherwise noted	G	N/A	N/A	N/A	Y	N/A	N/A	N/A	N/A	DY / O
<b>MERCURY</b>										
Cougar	G	DY / O	DY / O	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grand Marquis	G	G	G	G (prior to 7/15/02) Y (from 7/15/02)	Y	Y	Y	Y	N/A	N/A
Marauder	N/A	N/A	N/A	G (prior to 7/15/02) Y (from 7/15/02)	Y	N/A	N/A	N/A	N/A	N/A
Mariner (including Hybrid)	N/A	N/A	N/A	N/A	Y	Y	Y	Y (prior to 11/16/10) DY / O (from 11/16/10)	N/A	N/A
Milan (including Hybrid)	N/A	N/A	N/A	N/A	Y	Y	Y (prior to 7/6/09) DY / DG (from 7/6/09)	DY / DG	N/A	N/A
Monterey	N/A	N/A	N/A	N/A	Y	N/A	N/A	N/A	N/A	N/A
Mountaineer	G	G	G (prior to 7/15/02) Y (from 7/15/02)	Y	Y	Y	Y	N/A	N/A	N/A
Sable	G	G	G (prior to 7/15/02) Y (from 7/15/02)	Y	Y	Y (prior to 5/18/09) DY / DG (from 5/18/09)	N/A	N/A	N/A	N/A
All other vehicles not otherwise noted	G	G	G	N/A	Y	N/A	N/A	N/A	N/A	N/A

**Notes:**

The engine antifreeze/coolant usage noted in the chart above applies to all engine types (e.g., gasoline and diesel) available for a particular vehicle.

**G** = Green-colored engine coolant approved to Ford specification ESE-M97B44-A (Motorcraft® Premium Antifreeze/Coolant)

**DY / O** = Either yellow-colored engine coolant approved to Ford specification WSS-M97B57-A1 or WSS-M97B57-A2 (Motorcraft® Yellow Antifreeze/Coolant), orange-colored engine coolant approved to Ford specification WSS-M97B44-D or WSS-M97B44-D2 (Motorcraft® Orange Antifreeze/Coolant), or a combination of both engine coolants

**Y** = Yellow-colored engine coolant approved to Ford specification WSS-M97B51-A1 (Motorcraft® Gold Antifreeze/Coolant)

**DY / DG** = Either yellow-colored engine coolant approved to Ford specification WSS-M97B57-A1 or WSS-M97B57-A2 (Motorcraft® Yellow Antifreeze/Coolant), dark green-colored engine coolant approved to Ford specification WSS-M97B55-A (Motorcraft® Specialty Green Engine Coolant), or a combination of both engine coolants

For more service information on using Motorcraft® Yellow Antifreeze/Coolant with/in place of Motorcraft® Orange Antifreeze/Coolant, and Motorcraft® Specialty Green Engine Coolant, please visit <https://www.fcsdchemicalsandlubricants.com/Home/QuickReferenceCharts>

**Motorcraft® Engine Cooling System Products - Usage Information**

	Motorcraft® Premium Prediluted Antifreeze/Coolant (USA)	Motorcraft® Gold Prediluted Antifreeze/Coolant	Motorcraft® Specialty Green Engine Coolant (Concentrated)	Motorcraft® Orange Prediluted Antifreeze/Coolant	Motorcraft® Yellow Prediluted Antifreeze/Coolant
Motorcraft® Engine Coolant Name	Motorcraft® Premium Concentrated Antifreeze/Coolant	Motorcraft® Gold Concentrated Antifreeze/Coolant		Motorcraft® Orange Concentrated Antifreeze/Coolant	Motorcraft® Yellow Concentrated Antifreeze/Coolant
Service Part Numbers	<b>Prediluted:</b> VC-5DIL (USA)  <b>Concentrated:</b> VC-5 (USA) CVC-5 (Canada)	<b>Prediluted:</b> VC-7DIL-B and VC-7DIL-D (USA) CVC-7DIL-B2 (Canada)  <b>Concentrated:</b> VC-7-B and VC-7-D (USA) CVC-7-B2 (Canada)	VC-10-AZ (USA) / CVC-10-A (Canada)	<b>Prediluted:</b> VC-3DIL-B and VC-3DIL-BD (USA) CVC-3DIL-B (Canada)  <b>Concentrated:</b> VC-3-B and VC-3-D (USA) CVC-3-B2 (Canada)	<b>Prediluted:</b> VC-13DL-G (USA) CVC-13DL-G and CVC-13DL-P (Canada)  <b>Concentrated:</b> VC-13-G (USA) CVC-13-G and CVC-13-P (Canada)
Ford Specification	ESE-M97B44-A	WSS-M97B51-A1	WSS-M97B55-A	<b>Prediluted:</b> WSS-M97B44-D2 <b>Concentrated:</b> WSS-M97B44-D	<b>Prediluted:</b> WSS-M97B57-A2 <b>Concentrated:</b> WSS-M97B57-A1
<b>Use with the following products:</b>					
Acustrip® 3-Way HD Antifreeze Coolant Test Kit, Rotunda part numbers 328-2050-62291 and 328-20503R	Yes, but for use only with diesel engine-equipped vehicles	Yes, but for use only with diesel engine-equipped vehicles	No	Yes, but use only as recommended to check coolant for nitrite contamination	Yes, but use only as recommended to check coolant for nitrite contamination
Corrosion Protection (Test Kits) for Extended Life Coolant (ELC), Rotunda part number 328-R071-ELC	No	No	No	Yes, but for use only with the following vehicles: * 2011 - 2019 (built prior to 7/9/18) diesel engine-equipped F-Series Super Duty engine-equipped F-650 and F-750 engine-equipped F-650 and F-750	Yes, but only when mixed with <b>Motorcraft® Orange Antifreeze/Coolant</b> with the following vehicles: * 2011 - 2019 (built prior to 7/9/18) diesel engine-equipped F-Series Super Duty engine-equipped F-650 and F-750 diesel engine-equipped F-650 and F-750
VC-1 - Motorcraft® Premium Cooling System Flush	Yes	Yes	Yes	Yes	Yes
VC-8 - Motorcraft® Diesel Cooling System Additive	Yes, but use only in diesel engine-equipped vehicles. Use only as recommended.	Yes, but use only in diesel engine-equipped vehicles. Use only as recommended.	No	No	No
VC-9 - Motorcraft® Engine Cooling System Iron Cleaner (for industrial use only)	Yes, but use only when directed per the vehicle's Workshop Manual or a Technical Service Bulletin (TSB)	Yes, but use only when directed per the vehicle's Workshop Manual or a Technical Service Bulletin (TSB)	Yes, but use only when directed per the vehicle's Workshop Manual or a Technical Service Bulletin (TSB)	Yes, but use only when directed per the vehicle's Workshop Manual or a Technical Service Bulletin (TSB)	Yes, but use only when directed per the vehicle's Workshop Manual or a Technical Service Bulletin (TSB)
VC-12 - Motorcraft® Specialty Orange Engine Coolant Revitalizer	No	No	No	Yes, but for use only with the following vehicles: * 2011 - 2019 (built prior to 7/9/18) diesel engine-equipped F-Series Super Duty engine-equipped F-650 and F-750	Yes, but only when mixed with <b>Motorcraft® Orange Antifreeze/Coolant</b> with the following vehicles: * 2011 - 2019 (built prior to 7/9/18) diesel engine-equipped F-Series Super Duty engine-equipped F-650 and F-750 diesel engine-equipped F-650 and F-750

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 For the most up-to-date information, please refer to the chart at <https://www.fcscchemicalsandlubricants.com/Home/QuickReferenceCharts>



## Motorcraft® Lacquer Touch-up Paints<sup>1</sup>

Vehicle Certification Label Paint Code(s)	Color Name <sup>2</sup>	Motorcraft® Service Part Number
-	Charcoal	PMPM-19500-6388G
-	Medium Dark Platinum	PMPM-19500-7060G
A2	Chroma Elite	PMPC-19500-7355A
A3	Space White	PMPC-19500-7459A
AB	Infinite Blue TC	PMPC-19500-7463A
AE	Grabber Blue Metallic	PMPC-19500-7454A
AG	Khaki Sandstone PC	PMPC-19500-7488A
AJ	Spinel Green	PMPC-19500-7427A
AQ	Arizona Beige	PMPC-19500-6985A
AR	Iced Mocha PC	PMPC-19500-7408A
AW	Kapoor Red	PMPC-19500-E018A
AZ	Star White 3C	PMPP-19500-7446A
B1	Chrome Yellow	PMPC-19500-1526A
B2	Harvest Gold	PMPC-19500-6926A
B3	Atlas Blue	PMPC-19500-7440A
B5	Bright Highland Green	PMPC-19500-7424A
B6	Rich Copper TC	PMPC-19500-7425A
B7	Zinc Yellow	PMPC-19500-7000A
B8	Outrageous Green TC	PMPC-19500-7395A
B9	Stealth	PMPC-19500-E012A
BA	Chrome Copper	PMPC-19500-7383A
BA	Light Prairie Tan	PMPC-19500-6818A
BG	Baltic Sea Green	PMPC-19500-7421A
BK	Platinum Dune 3C	PMPC-19500-7306A
BL	Tahitian Pearl	PMPC-19500-7305A
BM	Light Prairie Tan	PMPC-19500-6818A
BN	Silver Spruce	PMPC-19500-7422A
BP	Sedona Orange	PMPC-19500-7419A
BQ	Light Parchment Gold	PMPC-19500-6904A
BR	Karat Gold	PMPC-19500-7304A
BT	Dark Side	PMPC-19500-7301A
BY	Chrome Yellow	PMPC-19500-1526A
BZ	Chrome Yellow	PMPC-19500-6675A
C2	Gold Ash	PMPC-19500-7065A
C4	Chestnut	PMPC-19500-6938A
C7	Canyon Ridge	PMPC-19500-7378A
C8	Flight Blue	PMPC-19500-7431A
C9	Jewel Red TC	PMPC-19500-7483A

<sup>1</sup> Currently-active parts only

<sup>2</sup> Certain colors have other names/variations of their name (e.g., for YZ, Z1: Oxford White)

<sup>3</sup> This color applies to model years 2017 and later vehicles

<sup>4</sup> This color applies to model years 2022 and later vehicles

<sup>5</sup> This color applies to model year 2023 and later vehicles

## Motorcraft® Lacquer Touch-up Paints<sup>1</sup> – continued

Vehicle Certification Label Paint Code(s)	Color Name <sup>2</sup>	Motorcraft® Service Part Number
CA	Twister Orange 3C	PMPC-19500-7434A
CB	Yellow Peel	PMPC-19500-7451A
CI	Grabber Blue	PMPC-19500-7210A
CJ	Luxe Yellow	PMPC-19500-E019A
CN	Code Orange	PMPC-19500-7468A
CW	Heritage Light Blue	PMPC-19500-7478A
CX	Dark Shadow Gray	PMPC-19500-7039A
CY	Competition Orange	PMPC-19500-7117A
D1	Stone Gray	PMPC-19500-7393A
D2 <sup>3</sup>	Bohai Bay Mint	PMPC-19500-7382A
D3	Colorado Red	PMPC-19500-7042A
D4	Lucid Red TC	PMPP-19500-7444A
D6	Screaming Yellow	PMPC-19500-7109A
D7	Sunset	PMPC-19500-7298A
D9	Dark Persian Green	PMPC-19500-7442A
D1	Dark Ink Blue	PMPC-19500-7187A
DR	Avalanche	PMPC-19500-7344A
DT	Matador Red	PMPC-19500-7057A
DV	Light Tundra	PMPC-19500-7081A
DX	Dark Pearl Blue	PMPC-19500-7083A
DW	Nitrous Blue 4C	PMPP-19500-E013A
E1	Blue Ember	PMPC-19500-7492A
E2	Magma Red	PMPC-19500-7397A
E4	Vermilion Red	PMPC-19500-6470A
E7	Velocity Blue	PMPC-19500-7423A
E9	Laser Red Tint	PMPC-19500-6688A
EA	Hot Pepper Red TC	PMPC-19500-7403A
EB	Chroma Crystal Blue	PMPC-19500-7401A
EC	Cinnamon Glaze	PMPC-19500-7405A
EE	Smoke	PMPC-19500-E017A
EF	Bronze Smoke PC	PMPC-19500-7471A
ES	Performance Red	PMPC-19500-6729A
F1	Vermilion Red	PMPC-19500-6470A
F6	Ceramic White Tricoat	PMPC-19500-7085A
F9	Grabber Lime	PMPC-19500-7435A
FA	Eruption Green	PMPC-19500-7476A
FK	Diffused Silver	PMPC-19500-7430A
FL, FN	Toreador Red	PMPC-19500-6758A

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<sup>5</sup> This color applies to model year 2023 and later vehicles

## Motorcraft® Lacquer Touch-up Paints<sup>1</sup> — continued

Vehicle Certification Label Paint Code(s)	Color Name <sup>2</sup>	Motorcraft® Service Part Number
FM	Ford Performance Blue	PMPC-19500-7412A
FQ	Bordeaux Reserve	PMPC-19500-7240A
FS	Spruce Green	PMPC-19500-6860A
FT	Blue Diamond	PMPC-19500-7411A
FU <sup>4</sup>	Manhattan Green PC	PMPC-19500-7473A
FU, FW	Dark Green Satin	PMPC-19500-6862A
FX	Merlot	PMPC-19500-7087A
G1	Absolute Black	PMPC-19500-7343A
G2	Redfire	PMPC-19500-7089A
G3	Pueblo Gold	PMPC-19500-7113A
G4 <sup>5</sup>	Azure Gray 3C	PMPC-19500-7480A
G4	Cashmere Tricoat	PMPC-19500-7118A
G5	Alloy	PMPC-19500-7116A
G6	Desert Gold	PMPC-19500-7436A
G9	Vista Blue	PMPC-19500-7147A
GG	Forest Green	PMPC-19500-7175A
GN	White Gold (Palladium Gold)	PMPC-19500-7362A
GP	Elite Blue	PMPC-19500-7474A
GS	Ceramic Pearl 3C	PMPP-19500-7415A
GT	Autumn Red	PMPC-19500-6934A
GU	Saber	PMPC-19500-7413A
GW	Orange Crush Pearl	PMPC-19500-7110A
H3	Triple Yellow 3C	PMPC-19500-7338A
H5	Caribou	PMPC-19500-7335A
H6	Luxe	PMPC-19500-7334A
H7	Bronze Fire	PMPC-19500-7332A
H8	Electric Spice	PMPC-19500-7329A
H9	Bronze Fire TC	PMPC-19500-7332A
HA	Ivory Pearl 3C	PMPP-19500-7398A
HC	Ivory Parchment Tricoat	PMPC-19500-6944A
HD	Green Envy 3C	PMPC-19500-7278A
HE	Solar Silver	PMPC-19500-E021A
HG	Smokestone	PMPC-19500-7148A
HH	Dark Cherry	PMPC-19500-7149A
HI	Tectonic Silver	PMPC-19500-E007A
HN	Guard	PMPC-19500-7326A
HP	High Performance White	PMPC-19500-7139A
HQ	Cerulean Blue	PMPC-19500-7241A

<sup>1</sup> Currently-active parts only

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<sup>4</sup> This color applies to model years 2022 and later vehicles

<sup>5</sup> This color applies to model year 2023 and later vehicles

## Motorcraft® Lacquer Touch-up Paints<sup>1</sup> — continued

Vehicle Certification Label Paint Code(s)	Color Name <sup>2</sup>	Motorcraft® Service Part Number
HS	Earth	PMPC-19500-7190A
HT	Cinnamon	PMPC-19500-7186A
HW	Jade Metallic	PMPC-19500-7373A
HX	Antimatter Blue	PMPC-19500-7456A
HY	Dark Matter Gray PC	PMPC-19500-7470A
J1	Kodiak Brown	PMPC-19500-7261A
J4	Deep Impact Blue Metallic	PMPC-19500-7289A
J5	Midnight Sky	PMPC-19500-E009A
J7	Magnetic	PMPC-19500-7325A
J9	Orange Spice 3C	PMPC-19500-7376A
JH	Dark Micastone	PMPC-19500-E006A
JL, JM	Dark Toreador Red	PMPC-19500-6771A
JP	Silver Birch	PMPC-19500-7052A
JQ	Golden Bronze	PMPC-19500-7234A
JS	Iconic Silver	PMPC-19500-7432A
JV	Sangria Red	PMPC-19500-7197A
JX	Lead Foot Gray	PMPC-19500-7394A
JY	Ginger Ale	PMPC-19500-7262A
JZ	Crystal Champagne Tricoat	PMPP-19500-7267A
K1	Vapor Blue	PMPC-19500-7490A
K3	Ochre Brown Metallic	PMPC-19500-7420A
KR	Norsea Blue	PMPC-19500-7111A
KT	Brisbane Brown	PMPC-19500-7312A
KU	Area 51	PMPC-19500-7324A
KY	Peak Blue	PMPC-19500-7469A
KZ	Molten Chroma Gold	PMPC-19500-7400A
L1	Performance Blue	PMPC-19500-7282A
L2	True Blue	PMPC-19500-7023A
L6	Kona Blue	PMPC-19500-7188A
L7	Bright Magenta	PMPC-19500-7245A
L8	Cinnabar Red PC	PMPC-19500-7487A
L9	Forged Green	PMPC-19500-7472A
LB	Alto Blue TC	PMPC-19500-7439A
LC	Too Good To Be Blue	PMPC-19500-7347A
LD	Medium Wedgewood	PMPC-19500-6763A
LL	Deep Wedgewood Blue	PMPC-19500-6910A
LP	Electric Gold 3C	PMPC-19500-7280A
LQ	Pale Adobe Metallic	PMPC-19500-7235A

<sup>1</sup> Currently-active parts only

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<sup>5</sup> This color applies to model year 2023 and later vehicles

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## Motorcraft® Lacquer Touch-up Paints<sup>1</sup> — continued

Vehicle Certification Label Paint Code(s)	Color Name <sup>2</sup>	Motorcraft® Service Part Number
LS	Light Ice Blue	PMPC-19500-7054A
M7	Carbonized Gray	PMPC-19500-7458A
ME	Abyss Gray	PMPC-19500-7418A
MT	Blue Mist	PMPC-19500-7484A
N1	Blue Jeans Metallic	PMPC-19500-7291A
N4	Wimbledon White	PMPC-19500-7341A
N5	Rhapsody Blue	PMPC-19500-7372A
N6	Blue Lightning	PMPC-19500-7365A
NB	Dark Tourmaline	PMPC-19500-6572A
ND	Dune Pearl	PMPC-19500-7150A
NE	Cactus Gray	PMPC-19500-7457A
NH	Light Sage	PMPC-19500-7146A
NL	Orange Fury 3C	PMPC-19500-7409A
NQ	Yellow Blaze Tricoat	PMPP-19500-7238A
NS	Noisette	PMPC-19500-E005A
NT	Burnished Glow	PMPC-19500-E010A
NZ	Kiwi Green	PMPC-19500-7174A
P1	Lime Gold	PMPC-19500-7135A
P2	Oil Slick Blue-Purple PC	PMPC-19500-7475A
P3	Windveil Blue	PMPC-19500-7134A
P5	Aspen Green	PMPC-19500-7056A
P9	Frosted Glass	PMPC-19500-7254A
PH	Crème Brûlée	PMPC-19500-7176A
PQ	Race Red	PMPC-19500-7236A
PV	White Chocolate Tricoat	PMPP-19500-7167A
PX, PY	Dark Highland Green	PMPC-19500-6920A
R3	Burgundy Velvet TC	PMPC-19500-7356A
R6	Chroma Cabernet	PMPC-19500-7363A
RH	Yellow Splash 3C	PMPC-19500-7486A
RR	Ruby Red TC	PMPC-19500-7283A
RY	Mars Red	PMPC-19500-E008A
RZ	Red Candy 2 Tintcoat	PMPC-19500-7293A
S4	Solar	PMPC-19500-E011A
S6	Yellowstone	PMPC-19500-7461A
SB	Cyber Orange Peel	PMPP-19500-7450A
SK	Silver Sand	PMPC-19500-7309A
SN	Sonic Blue	PMPC-19500-7095A
SQ	Green Orchid	PMPC-19500-7239A

<sup>1</sup> Currently-active parts only

<sup>2</sup> Certain colors have other names/variations of their name (e.g., for YZ, Z1: Oxford White)

<sup>3</sup> This color applies to model years 2017 and later vehicles

<sup>4</sup> This color applies to model years 2022 and later vehicles

<sup>5</sup> This color applies to model year 2023 and later vehicles

## Motorcraft® Lacquer Touch-up Paints<sup>1</sup> — continued

Vehicle Certification Label Paint Code(s)	Color Name <sup>2</sup>	Motorcraft® Service Part Number
ST	Estate Green	PMPC-19500-6918A
SU	Amazon Green	PMPC-19500-6922A
SZ	Blue Flame	PMPC-19500-7220A
T5	Dark Copper	PMPC-19500-7133A
T7	Charcoal Beige	PMPC-19500-7136A
T8	Tungsten Gray	PMPC-19500-7145A
T9	Monterey Metallic	PMPC-19500-7173A
TB	Real Steel	PMPC-19500-7350A
TK	Mineral Gray	PMPC-19500-7020A
TL	Satin Silver	PMPC-19500-7049A
TQ	Smoked Quartz TC	PMPC-19500-7285A
TS	Silver Frost	PMPC-19500-6720A
TY	Moondust Silver	PMPC-19500-6041A
U1	Sport Blue	PMPC-19500-7209A
U3	Valencia	PMPC-19500-7178A
U6	Red Candy Tint	PMPC-19500-7219A
UA, UB, UD	Black	PMPC-19500-7343A
UE	Panther Black	PMPC-19500-E001A
UF	Chroma Quartz	PMPC-19500-7354A
UG	White Platinum Tricoat	PMPP-19500-7204A
UH	Tuxedo Black Metallic	PMPC-19500-7211A
UI	Brilliant Silver Metallic	PMPC-19500-7208A
UJ	Sterling Gray Metallic	PMPC-19500-7205A
UK	Royal Red Metallic	PMPC-19500-7207A
UL	Atlantis Green Metallic	PMPC-19500-7212A
UM	Agate Black Metallic	PMPC-19500-7414A
UN	Steel Blue Metallic	PMPC-19500-7227A
UP	Gold Leaf Metallic	PMPC-19500-7225A
UR	Natural Neutral Metallic	PMPC-19500-7223A
UT	Avalon	PMPC-19500-E004A
UV	Blazer Blue	PMPC-19500-E002A
UX	Ingot Silver Metallic	PMPC-19500-7226A
UY	Molten Orange Tricoat	PMPP-19500-7228A
UZ	Lava Red	PMPC-19500-7229A
V7	Golden Bronze	PMPC-19500-7234A
VA	Terrain	PMPC-19500-7290A
VE	Chroma Flame	PMPC-19500-7320A
VG	Violet Gray	PMPC-19500-7131A

<sup>1</sup> Currently-active parts only

<sup>2</sup> Certain colors have other names/variations of their name (e.g., for YZ, Z1: Oxford White)

<sup>3</sup> This color applies to model years 2017 and later vehicles

<sup>4</sup> This color applies to model years 2022 and later vehicles

<sup>5</sup> This color applies to model year 2023 and later vehicles

## Motorcraft® Lacquer Touch-up Paints<sup>1</sup> — continued

Vehicle Certification Label Paint Code(s)	Color Name <sup>2</sup>	Motorcraft® Service Part Number
W4	Performance White	PMPC-19500-1028A
W5	Ceramic White	PMPC-19500-7018A
W6	Green Gem 2	PMPC-19500-7296A
W7	Crystal Silver	PMPC-19500-7322A
W8	Notorious	PMPC-19500-7318A
W9	Diamond Black	PMPC-19500-7369A
WF	White Pearl Tricoat	PMPC-19500-6864A
WS	White Suede	PMPC-19500-7193A
WT	Performance White	PMPC-19500-1028A
XE	Black Tie	PMPC-19500-7323A
XF	Chroma Caviar	PMPC-19500-7368A
YN	Light Charcoal Metallic	PMPC-19500-6041A
YQ	Ice Storm	PMPC-19500-7292A
YZ, Z1	White	PMPC-19500-5920A
Z2	Frozen White	PMPC-19500-E003A
Z3	Light Charcoal Metallic	PMPC-19500-6041A
Z6	Silver Diamond PC	PMPC-19500-7242A
Z9	Blue Candy Tricoat	PMPP-19500-7252A
ZA	Diamond White	PMPC-19500-E016A
ZR	Ultra White	PMPC-19500-6615A
ZX	Chroma Couture	PMPC-19500-7319A
ZY	Vapor Silver	PMPC-19500-7195A

<sup>1</sup> Currently-active parts only

<sup>2</sup> Certain colors have other names/variations of their name (e.g., for YZ, Z1: Oxford White)

<sup>3</sup> This color applies to model years 2017 and later vehicles

<sup>4</sup> This color applies to model years 2022 and later vehicles

<sup>5</sup> This color applies to model year 2023 and later vehicles

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For the most up-to-date information, please refer to the chart at <https://www.fcsdchemicalsandlubricants.com/Home/QuickReferenceCharts>

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- Batteries-BD 200
- Belts, Hoses & Tensioners-GSR 200
- Brake & Wheel Hub Products-PV 200
- Caps, Thermostats & Water Pumps-CW 200
- Rotating Electrical, Ignition Components, Wire & Cable-EWC 200
- Electrical Switches-SP 251
- Filters-FI 200
- Fuel & Emission Systems-FES 200
- Lubricants & Chemicals-OIL 3051
- Popular Parts-APF 200
- Powertrain Components & Remanufactured Assemblies-PTF 200
- Spark Plugs-M 200
- Steering, Suspension & CV Products-SSD 200
- Windshield Wiper Blades-WW 200
- Wiring Pigtail Kits-WPT 200



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