

**Motorcraft****Motorcraft® Engine Antifreeze/Coolants - Usage Chart  
(Model Years 2018 and forward)**

| Vehicle                                            | Model Year                              |                                           |                                         |
|----------------------------------------------------|-----------------------------------------|-------------------------------------------|-----------------------------------------|
|                                                    | 2018                                    | 2019                                      | 2020                                    |
| <b>FORD</b>                                        |                                         |                                           |                                         |
| C-MAX Hybrid                                       | O                                       | N/A                                       | N/A                                     |
| Econoline (E-Series)                               | O                                       | O (prior to 7/16/18)<br>DY (from 7/16/18) | DY                                      |
| EcoSport                                           | O                                       | O                                         | O                                       |
| Edge                                               | O                                       | O (prior to 7/8/19)<br>DY (from 7/8/19)   | DY                                      |
| Escape (including Hybrid)                          | O                                       | O                                         | O (prior to 1/2/20)<br>DY (from 1/2/20) |
| Expedition                                         | O (prior to 7/9/18)<br>DY (from 7/9/18) | DY                                        | DY                                      |
| Explorer (including Hybrid)                        | O                                       | O                                         | DY                                      |
| F-150 (including Raptor)                           | O                                       | O (prior to 1/1/19)<br>DY (from 1/1/19)   | DY                                      |
| F-250 - F-550                                      | O (prior to 7/9/18)<br>DY (from 7/9/18) | O (prior to 7/9/18)<br>DY (from 7/9/18)   | DY                                      |
| F-650 - F-750                                      | O                                       | O (prior to 7/16/18)<br>DY (from 7/16/18) | DY                                      |
| Fiesta                                             | O                                       | O                                         | N/A                                     |
| Flex                                               | O                                       | O (prior to 7/8/19)<br>DY (from 7/8/19)   | N/A                                     |
| Focus / Focus Electric                             | O                                       | N/A                                       | N/A                                     |
| Fusion (including Hybrid)                          | O                                       | O                                         | O (prior to 1/6/20)<br>DY (from 1/6/20) |
| GT                                                 | O                                       | O                                         | O (prior to 1/1/20)<br>DY (from 1/1/20) |
| Motorhome F-53 / F-59                              | O                                       | O                                         | DY                                      |
| Mustang (including Shelby GT350 and Shelby GT 500) | O                                       | O                                         | O (prior to 1/2/20)<br>DY (from 1/2/20) |
| Ranger                                             | N/A                                     | O (prior to 7/8/19)<br>DY (from 7/8/19)   | DY                                      |
| Taurus                                             | O                                       | O                                         | N/A                                     |
| Transit                                            | O                                       | O (prior to 1/1/19)<br>DY (from 1/1/19)   | DY                                      |
| Transit Connect                                    | O                                       | O                                         | O                                       |
| <b>LINCOLN</b>                                     |                                         |                                           |                                         |
| Aviator (including Hybrid)                         | N/A                                     | N/A                                       | DY                                      |
| Continental                                        | O                                       | O                                         | O (prior to 1/2/20)<br>DY (from 1/2/20) |
| Corsair                                            | N/A                                     | N/A                                       | O (prior to 1/2/20)<br>DY (from 1/2/20) |
| MKC                                                | O                                       | O                                         | N/A                                     |
| MKT                                                | O                                       | O (prior to 7/8/19)<br>DY (from 7/8/19)   | N/A                                     |
| MKX                                                | O                                       | N/A                                       | N/A                                     |
| MKZ (including Hybrid)                             | O                                       | O                                         | O (prior to 1/6/20)<br>DY (from 1/6/20) |
| Nautilus                                           | N/A                                     | O (prior to 7/8/19)<br>DY (from 7/8/19)   | DY                                      |
| Navigator                                          | O (prior to 7/9/18)<br>DY (from 7/9/18) | DY                                        | 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.

**O = Orange-colored engine coolant approved to Ford specification WSS-M97B44-D or WSS-M97B44-D2 (Motorcraft® Orange Antifreeze/Coolant)****DY = Yellow-colored engine coolant approved to Ford specification WSS-M97B57-A1 or WSS-M97B57-A2 (Motorcraft® Yellow Antifreeze/Coolant)**

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**Quick Reference Charts**

**Motorcraft****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                                       | O                                                                  |
| Crown Victoria                                          | G             | G         | G                                        | G (prior to 7/15/02)<br>Y (from 7/15/02) | Y         | Y                                         | Y                                        | Y                                          | N/A                                       | N/A                                                                |
| Econoline (E-Series)                                    | G             | G         | G (prior to 1/7/02)<br>Y (from 1/7/02)   | Y                                        | Y         | Y                                         | Y                                        | Y                                          | Y                                         | Y (2013 - 2016 and 2017 prior to 6/24/16)<br>O (2017 from 7/11/16) |
| Edge                                                    | N/A           | N/A       | N/A                                      | N/A                                      | Y         | Y (prior to 1/19/09)<br>DG (from 1/19/09) | DG                                       | DG (prior to 7/11/11)<br>O (from 7/11/11)  | O                                         | O                                                                  |
| Escape (including Hybrid)                               | N/A           | G         | G (prior to 7/15/02)<br>Y (from 7/15/02) | Y                                        | Y         | Y                                         | Y                                        | Y (prior to 11/16/10)<br>O (from 11/16/10) | O                                         | O                                                                  |
| Escort                                                  | G             | G         | G (prior to 7/15/02)<br>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)<br>Y (from 7/15/02) | Y         | Y                                         | Y (prior to 2/22/10)<br>O (from 2/22/10) | O                                          | O                                         | O                                                                  |
| Explorer, Explorer Sport, and Explorer Sport Trac       | G             | G         | G (prior to 7/15/02)<br>Y (from 7/15/02) | Y                                        | Y         | Y                                         | Y                                        | DG (prior to 7/11/11)<br>O (from 7/11/11)  | O                                         | O                                                                  |
| F-150 - F-550 (Cuautitlan Plant)                        | G             | G         | G (prior to 2/4/02)<br>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                                        | O                                          | O                                         | O                                                                  |
| F-150 - F-550 (All other plants)                        | G             | G         | G (prior to 7/15/02)<br>Y (from 7/15/02) | Y                                        | Y         | Y                                         | Y                                        | O                                          | O                                         | O                                                                  |
| Fiesta                                                  | N/A           | N/A       | N/A                                      | N/A                                      | N/A       | N/A                                       | N/A                                      | O                                          | O                                         | O                                                                  |
| Flex                                                    | N/A           | N/A       | N/A                                      | N/A                                      | N/A       | Y (prior to 1/19/09)<br>DG (from 1/19/09) | DG                                       | DG                                         | DG (prior to 7/11/11)<br>O (from 7/11/11) | 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)<br>Y (from 7/15/02) | Y                                        | Y         | Y                                         | Y                                        | Y                                          | O                                         | O                                                                  |
| Focus Electric                                          | N/A           | N/A       | N/A                                      | N/A                                      | N/A       | N/A                                       | N/A                                      | N/A                                        | O                                         | O                                                                  |
| Fusion (including Hybrid)                               | N/A           | N/A       | N/A                                      | N/A                                      | Y         | Y                                         | Y (prior to 7/6/09)<br>DG (from 7/6/09)  | DG                                         | DG (prior to 8/15/11)<br>O (from 8/15/11) | O                                                                  |
| Motorhome F-53 / F-59                                   | G             | G         | Y                                        | Y                                        | Y         | Y                                         | Y                                        | Y                                          | Y                                         | Y (2013 - 2014)<br>O (2015 - 2017)                                 |
| Mustang (including Cobra, Shelby GT500, Boss 302, etc.) | G             | G         | G (prior to 7/15/02)<br>Y (from 7/15/02) | Y                                        | Y         | Y                                         | Y                                        | O                                          | O                                         | O                                                                  |
| Ranger                                                  | G             | G         | G (prior to 7/15/02)<br>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)<br>Y (from 7/15/02) | Y                                        | Y         | Y (prior to 5/18/09)<br>DG (from 5/18/09) | DG                                       | DG (prior to 7/11/11)<br>O (from 7/11/11)  | O                                         | O                                                                  |
| Thunderbird                                             | N/A           | N/A       | G (prior to 7/15/02)<br>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                                       | O                                        | O                                          | O                                         | O                                                                  |
| Windstar                                                | G             | G         | G                                        | G (prior to 7/15/02)<br>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                                       | O                                                                  |

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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>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)<br>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)<br>Y (from 7/15/02) | N/A                                      | N/A       | N/A                                       | N/A                                       | N/A                                        | N/A                                       | O         |
| LS                                     | N/A           | G         | G (prior to 7/15/02)<br>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)<br>DG (from 5/18/09) | Y (prior to 5/18/09)<br>DG (from 5/18/09) | DG (prior to 7/11/11)<br>O (from 7/11/11)  | O                                         | O         |
| MKT                                    | N/A           | N/A       | N/A                                      | N/A                                      | N/A       | N/A                                       | DG                                        | DG                                         | DG (prior to 7/11/11)<br>O (from 7/11/11) | O         |
| MKX                                    | N/A           | N/A       | N/A                                      | N/A                                      | Y         | Y (prior to 1/19/09)<br>DG (from 1/19/09) | DG                                        | DG (prior to 7/11/11)<br>O (from 7/11/11)  | O                                         | O         |
| MKZ (including Hybrid)                 | N/A           | N/A       | N/A                                      | N/A                                      | Y         | Y                                         | Y (prior to 7/6/09)<br>DG (from 7/6/09)   | DG                                         | DG (prior to 8/15/11)<br>O (from 8/15/11) | O         |
| Navigator                              | G             | G         | G                                        | G (prior to 7/15/02)<br>Y (from 7/15/02) | Y         | Y                                         | Y (prior to 2/22/10)<br>O (from 2/22/10)  | O                                          | O                                         | O         |
| Town Car                               | G             | G         | G                                        | G (prior to 7/15/02)<br>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                                       | O         |
| <b>MERCURY</b>                         |               |           |                                          |                                          |           |                                           |                                           |                                            |                                           |           |
| Cougar                                 | G             | O         | 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)<br>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)<br>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)<br>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)<br>DG (from 7/6/09)   | 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)<br>Y (from 7/15/02) | Y                                        | Y         | Y                                         | Y                                         | N/A                                        | N/A                                       | N/A       |
| Sable                                  | G             | G         | G (prior to 7/15/02)<br>Y (from 7/15/02) | Y                                        | Y         | Y (prior to 5/18/09)<br>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)

**O** = Orange-colored engine coolant approved to Ford specification WSS-M97B44-D or WSS-M97B44-D2 (Motorcraft® Orange Antifreeze/Coolant)

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

**DG** = Dark green-colored engine coolant approved to Ford specification WSS-M97B55-A (Motorcraft® Specialty Green Engine Coolant)

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

| Motorcraft® Engine Coolant Name                                                                           | 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® 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><br>VC-5DIL and VC-5DIL-B (USA)                                                              | <b>Prediluted:</b><br>VC-7DIL-B and VC-7DIL-D (USA)<br>CVC-7DIL-B2 (Canada)                                    | VC-10-A2 (USA) /<br>CVC-10-A (Canada)                                                                          | <b>Prediluted:</b><br>VC-3DIL-B and VC-3DIL-BD (USA)<br>CVC-3DIL-B (Canada)                                                                                                                                                                                          | <b>Prediluted:</b><br>VC-13DL-G (USA)<br>CVC-13DL-G and CVC-13DL-P (Canada)                                    |
|                                                                                                           | <b>Concentrated:</b><br>VC-5 (USA)<br>CVC-5 (Canada)                                                           | <b>Concentrated:</b><br>VC-7-B and VC-7-D (USA)<br>CVC-7-B2 (Canada)                                           |                                                                                                                | <b>Concentrated:</b><br>VC-3-B and VC-3-D (USA)<br>CVC-3-B2 (Canada)                                                                                                                                                                                                 | <b>Concentrated:</b><br>VC-13-G (USA)<br>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<br><b>Concentrated:</b> WSS-M97B44-D                                                                                                                                                                                                | <b>Prediluted:</b> WSS-M97B57-A2<br><b>Concentrated:</b> WSS-M97B57-A1                                         |
| <b>Use with the following products:</b>                                                                   |                                                                                                                |                                                                                                                |                                                                                                                |                                                                                                                                                                                                                                                                      |                                                                                                                |
|                                                                                                           |                                                                                                                |                                                                                                                |                                                                                                                |                                                                                                                                                                                                                                                                      |                                                                                                                |
| <b>Acustrip® 3-Way HD Antifreeze Coolant Test Kit, Rotunda part numbers 328-2050-62291 and 328-20503R</b> | Yes, but for use <i>only</i> with diesel engine-equipped vehicles                                              | Yes, but for use <i>only</i> with diesel engine-equipped vehicles                                              | No                                                                                                             | Yes, but use <i>only</i> as recommended to check coolant for nitrite contamination                                                                                                                                                                                   | Yes, but use <i>only</i> as recommended to check coolant for nitrite contamination                             |
| <b>Antifreeze Coolant ELC Contamination Kit, Rotunda part number 328-R071-ELC</b>                         | No                                                                                                             | No                                                                                                             | No                                                                                                             | Yes, but for use <i>only</i> with the following vehicles:<br>* 2011 - 2019 (built prior to 7/9/18) diesel engine-equipped F-Series Super Duty<br>* 2016 - 2019 (built prior to 7/16/18) diesel engine-equipped F-650 and F-750                                       | No                                                                                                             |
| <b>VC-1 - Motorcraft® Premium Cooling System Flush</b>                                                    | Yes                                                                                                            | Yes                                                                                                            | Yes                                                                                                            | Yes                                                                                                                                                                                                                                                                  | Yes                                                                                                            |
| <b>VC-8 - Motorcraft® Diesel Cooling System Additive</b>                                                  | Yes, but use <i>only</i> in diesel engine-equipped vehicles. Use <i>only</i> as recommended.                   | Yes, but use <i>only</i> in diesel engine-equipped vehicles. Use <i>only</i> as recommended.                   | No                                                                                                             | No                                                                                                                                                                                                                                                                   | No                                                                                                             |
| <b>VC-9 - Motorcraft® Engine Cooling System Iron Cleaner (for industrial use only)</b>                    | Yes, but use <i>only</i> when directed per the vehicle's Workshop Manual or a Technical Service Bulletin (TSB) | Yes, but use <i>only</i> when directed per the vehicle's Workshop Manual or a Technical Service Bulletin (TSB) | Yes, but use <i>only</i> when directed per the vehicle's Workshop Manual or a Technical Service Bulletin (TSB) | Yes, but use <i>only</i> when directed per the vehicle's Workshop Manual or a Technical Service Bulletin (TSB)                                                                                                                                                       | Yes, but use <i>only</i> when directed per the vehicle's Workshop Manual or a Technical Service Bulletin (TSB) |
| <b>VC-12 - Motorcraft® Specialty Orange Engine Coolant Revitalizer</b>                                    | No                                                                                                             | No                                                                                                             | No                                                                                                             | Yes, but for use <i>only</i> with the following vehicles:<br>* 2011 - 2019 (built prior to 7/9/18) diesel engine-equipped F-Series Super Duty<br>* 2016 - 2019 (built prior to 7/16/18) diesel engine-equipped F-650 and F-750<br><br>Use <i>only</i> as recommended | No                                                                                                             |

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