



## Valvoline™ OEM Advanced 40 Ready To Use Coolant

*(Previously Zerex G-40 Ready To Use)*

Valvoline™ OEM Advanced 40 Ready To Use Coolant is premium automotive engine coolant developed by Valvoline. The patent-pending hybrid carboxylate formulation has an extended service life. It incorporates state-of-the-art Organic Acid Technology in an ethylene glycol base for protection of all cooling system metals including aluminum.

Valvoline™ OEM Advanced 40 Ready To Use Coolant is a Si-OAT, contains no phosphates, imidazole, borates, nitrates, amine or nitrites. Valvoline™ OEM Advanced 40 Ready To Use Coolant is approved by numerous manufacturers and meets the latest VW group requirements for service and factory fill. It is dyed pink to distinguish its unique chemistry from traditional green and yellow coolants.

Valvoline™ OEM Advanced 40 Ready To Use Coolant is prediluted at 50% with water for optimum protection of modern engine components from winter freezing and summer boil over and is compatible with major long life brands of ethylene glycol based coolant. It contains a quality defoamer and will not harm gaskets, hoses, plastics or original vehicle paint.

Valvoline™ OEM Advanced 40 Ready To Use Coolant is an **approved** formula for the following specifications:

|                              |                           |
|------------------------------|---------------------------|
| Cummins CES 14603 Registered | MTU MTL 5048              |
| Deutz DQC CC-14              | MB Approval 325.5 / 325.6 |
| MAN 324 Type Si-OAT          | MB Approval 326.5 / 326.6 |

Valvoline™ OEM Advanced 40 Ready To Use Coolant is formulated to meet or exceed the following antifreeze specifications and/or is recommended:

|                                |   |
|--------------------------------|---|
| ASTM D3306                     | Smart (MB 325.6)                            |
| ASTM D4985                     | MB Truck (from October 2011)                |
| ASTM D6210                     | Navistar MPAPS B1 IIIA                      |
| Cummins CES 14439              | Porsche (from MY 2010)                      |
| DCC                            | SAE J814                                    |
| Detroit Diesel DFS93K217ELC    | SCANIA                                      |
| Federal Specification A-A-870A | VW TL 774 G (G12++): VW/ Audi/ Seat/ Skoda/ |
| Irizar (from 2016)             | Lamborghini/ Bentley/ Bugatti               |
| Liebherr Minimum LH-01-COL3A   |   |

\*Please consult the owners' manual before use.

### Applications:

Valvoline™ OEM Advanced 40 Ready To Use Coolant is designed for use in passenger car, light duty and commercial petrol and diesel engines.

Valvoline™ OEM Advanced 40 Ready To Use Coolant meets the VW group G12++ requirements for service and factory fill. Suitable for use where G12 and G12+ is required.

### Mixture Ratio Guide:

Refer to vehicle cooling system requirements for correct mixture ratio.

| Antifreeze Boil/Freeze Protection |                    |                     |
|-----------------------------------|--------------------|---------------------|
| Antifreeze %                      | Freezing Point, °C | Boiling Point**, °C |
| 50                                | -36                | 128                 |

\*\*Typical 15psi radiator pressure cap.

**Note:** Complete drain and flush of cooling system is always recommended. Mixing with light duty or conventional fully formulated coolants may diminish optimum performance and cooling system protection.

# PRODUCT INFORMATION



## Features and Benefits

- Multi-purpose application, designed for petrol and diesel engines
- Utilises Organic acid technology to minimize inhibitor depletion
- Help prevents rust and corrosion
- No phosphate, imidazole, borates, nitrates, amine or nitrites free formula
- Protects mixed cooling system metals including alum.

## Keeping the world moving since 1866™

Serving more than 100 countries around the globe, Valvoline is a leading marketer, distributor and producer of quality branded automotive and industrial products and services. Products include automotive lubricants including MaxLife™, the first motor oil specifically formulated for higher-mileage vehicles; transmission fluids; gear oils; hydraulic lubricants; automotive chemicals; specialty products; greases, and cooling system products.

For more information on Valvoline products, programs and services please visit [www.valvoline.com.au](http://www.valvoline.com.au) or contact the Technical Hotline on 1800 804 658 for product recommendations.

## Typical Properties and Characteristics

Typical property characteristics are based on current production. Whilst future production will conform to Valvoline™ specifications, variations in these characteristics may occur.

| Valvoline™ OEM Advanced 40 Ready To Use Coolant |  |        |         |
|---|--|--------|---------|
| Physical Properties                             |  | Unit   | Typical |
| Antifreeze Glycol                               |  | Mass % | 46.5    |
| Corrosion Inhibitor                             |  | Mass % | 2       |
| Water   |  | Mass % | 51.5    |
| Flash Point (Concentrate)                       |  | °C     | 121     |
| Silicate  |  | PPM    | 90-115  |
| Phosphates                                      |  | PPM    | 5 max.  |

| Valvoline™ OEM Advanced 40 Ready To Use Coolant* |                    |                   |             |
|--|--------------------|-------------------|-------------|
| Characteristic                                   | Specifications     | Typical           | ASTM Method |
| Chloride   | 25 PPM, max.       | <10               | D3634       |
| Silicon  | 250 PPM, max.      | 100               | -           |
| Specific gravity, Con 15.6°C                     | 1.120 - 1.1350     | 1.1280            | D1122       |
| Freezing point, 50% V/V                          | -36°C              | -36°C             | D1177       |
| Boiling point, 50% V/V                           | 107°C              | 107°C             | D1120       |
| Effect on engine or vehicle finish               | No Effect          | No Effect         | -           |
| Ash content, mass %                              | 5 max.             | <4                | D1119       |
| pH, 50% V/V                                      | 8-9                | 8.5               | D1287       |
| Reserve alkalinity*                              | Report             | 4.5               | D1121       |
| Color  | Distinctive        | Pink/Violet       | -           |
| Effect on nonmetals                              | No adverse effect  | No adverse effect | -           |
| Storage stability                                | -                  | 5 years           | -           |
| Foaming  | 150 ml vol., max.  | 40 ml             | D1881       |
|  | 5 sec. break, max. | 1 sec.            | D1881       |
| Cavitation-erosion rating                        | 8 min.             | 9                 | D2809       |

\*Reserve alkalinity (RA) is a term used to indicate the amount of alkaline inhibitors present in an antifreeze formulation. It is incorrect to relate a high RA with a high-quality antifreeze. Present state-of-the-art antifreeze formulations contain many new inhibitors which give added protection to certain metals but do not raise the RA number.

# PRODUCT INFORMATION



| Valvoline™ OEM Advanced 40 Ready To Use Coolant<br>Aluminium Water Pump Tests |         |               |
|---|---------|---------------|
| ASTM D2809 Pump Cavitation (Extended Test)                                    |         |               |
| Test Period   | Results | Specification |
| 100 hours   | 9       | 8             |

ASTM cavitation corrosion rating: 10 - perfect 1 - perforated

| Typical ASTM Corrosion Test Results |                            |        |             |
|-------------------------------------|----------------------------|--------|-------------|
|                                     | Weight Loss<br>Mg/Specimen |        |             |
| Glassware Corrosion Test            | Spec.                      | Actual | ASTM Method |
| Copper                              | 10                         | 1      | D1384       |
| Solder                              | 30                         | 1      |             |
| Brass                               | 10                         | 1      |             |
| Steel                               | 10                         | 0      |             |
| Cast Iron                           | 10                         | 0      |             |
| Aluminium                           | 30                         | 1      |             |
| Simulated Service Test              |                            |        |             |
| Copper                              | 20                         | 2      | D2570       |
| Solder                              | 60                         | 24     |             |
| Brass                               | 20                         | 1      |             |
| Steel                               | 20                         | 1      |             |
| Cast Iron                           | 20                         | 1      |             |
| Aluminium                           | 60                         | 0      |             |
| Hot Surface Corrosion               | mg/cm <sup>2</sup> /wk     |        |             |
|                                     |                            |        |             |
| Specimen weight loss                | 1.0                        | 0.18   | D4340       |
| John Deere Coolant Cavitation Test  | <200                       | Passed | D7583       |
| Ford Pitting Test mV min            | -400                       | -265   | FLTM BL5-1  |

This information only applies to products manufactured in the following location(s): Australia

| Part Number | Pack Size |
|-------------|-----------|
| 0956.05     | 5L        |
| 0956.28     | 208L      |

## Health and Safety

This product is not likely to present any significant health or safety hazards when used correctly in the right application. Safety Data Sheet (SDS) is available on request via your local sales office or 1800 804 658 or through our website [www.valvoline.com.au](http://www.valvoline.com.au)

## Protect the Environment

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

## Storage

Storage We recommend to store all packages under cover. In case outside storage is unavoidable, drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should never be stored above 60 °C, exposed to hot sun or freezing conditions.

## Author:

VP - Effective 29-04-2022  
Replaces - 0956/07