

Mobil™ Coolant Extended Long Life 50/50

Data Sheets



Mobil Coolant Extended Long Life 50/50 Ready Mixed

Properties

Mobil Coolant Extended Long Life 50/50 Ready Mixed is an ethylene glycol based fluid using OAT technology to provide maintenance-free protection against freezing and boiling but also against corrosion. Extended coolant life, often for the whole life of the engine or vehicle is obtained through the use of virtually non-depleting corrosion inhibitors.

Mobil Coolant Extended Long Life 50/50 Ready Mixed is a ready to use product. Mixing 50% Concentrate with 50% deionized water, further dilution with water is not recommended.

Mobil Coolant Extended Long Life 50/50 Ready Mixed offers many benefits to the engine/Machine designer as well as to the user:

- **Extended life** by effectively combining compatible ingredients
- **Improved heat transfer** leaves more flexibility to engine design
- **Reduces repairs** to thermostat, radiator and water pump
- **Reliability** depletion free and stable inhibitor
- **Improved hard water stability** absence of silicates and phosphates
- **Save time and money** maintenance-free coolant
- **Suitable for mixed fleets** 1 coolant for automotive & heavy duty application
- **Environmentally friendly** by using carboxylic additives

Mobil Coolant Extended Long Life 50/50 Ready Mixed fulfills the requirements of the following antifreeze standards:

ASTM D4656, ASTM D4985, ASTM D6210, BS 6580, NFR 15-601, FVV Heft R443, JIS K2234, KS M 2142, BT-PS-606 A, DCSEA 615/C, E/L-1415b, FSD 8704, NATO S-759, Önorm V5123, SAE J1034, UNE 26-361-88/1.

Meets performance requirements of the following OEMs:

- ADE
- AGCO Fendt and Valtra
- Aston Martin
- BAIC Group Foton, Q-FPT 2313005-2013
- Caterpillar EC-1,
- MAK
- MWM, 0199-99-2091/12
- Claas
- CNH Industrial (MAT3624)
- Cummins CES 14603, CES 14439, IS Series and N14 Engines
- Daimler AG Mercedes-Benz, (325.3 and 326.3) and Daimler AG Detroit, (DFS93K217)
- Deutz, (DQC CB-14)
- DRB-HICOM
- Fendt
- Fiat (9, 55523)
- Ford, (WSS-M97B44-D)
- General Motors, Chevrolet, Saab, (B 040 1065), Saturn
- Great Wall Motors
- Hitachi
- Innio Jenbacher, (TA 1000-0200) and Waukesha
- John Deere (JDM H5)
- Isuzu
- Irisbus, Karosa
- Kobelco
- Komatsu 07.892 (2009)
- Liebherr (MD1-36-130) Mahle, Behr
- Mazda, (MEZ MN 121 D)
- Mitsubishi Heavy Industry (MHI)
- Paccar DAF, (74002) and Leyland Trucks, (DW03245403)
- PSA Opel and Vauxhall (GMW 3420)
- Renault-Nissan (41-01-0001/- S Type D)
- Rolls Royce Power Systems AG
- MTU, (MTL 5048)
- Rolls Royce Power Systems AG Bergen Engines, (2.13.01)
- Suzuki Santana Motors
- Tata Motors Jaguar, (CMR 8229 and STJLR 651.5003), Tata Motors (Land Rover and STJLR 651.5003) Tedom
- Thermo King
- Van Hool
- Volvo AB Mack, (014 GS 17009); Volvo AB, Volvo Penta
- Volvo AB Renault Trucks, (41-01-001/- -S Type D)
- VW Audi, (TL-774 D = G 12, TL-774 F = G 12+
- VW MAN, (324 Typ SNF)
- VW MAN Energy Solutions VW MAN (B&W AG, D36 5600)
- VW MAN B&W A/S
- VW Seat, (TL-774 D = G 12 and TL-774 F = G 12+)
- VW Skoda (TL-774 D = G 12, TL-774 F = G 12+ and 61-0-0257)
- VW Volkswagen, (TL-774 D = G 12 and TL-774 F = G 12+)
- VW Semt Pielstick
- Volvo AB Construction and Trucks
- Wärtsilä SACM Diesel, (DLP799861 and 32-9011)
- Yanmar

Mobil™ Coolant Extended Long Life 50/50

Data Sheets

Fleet Testing

Based on patented silicate-free aliphatic additive technology, Mobil Coolant Extended Long Life 50/50 Ready Mixed provides long-life corrosion protection for all engine metals, including aluminium and ferrous alloys. During extensive fleet testing, the synergistic combination of mono- and di-carboxylates present in this coolant, has proven to provide protection for at least 650,000 km (ca. 8,000 hours) in truck & bus-application or 250,000 km (ca. 2,000 hours) for passenger cars or 32,000 hours (or 6 years) for stationary engines. It is recommended to change the coolant every five years or when above mileages or operating times are reached, whichever comes first. Mobil Coolant Extended Long Life 50/50 Ready Mixed provides long-life protection against all forms of corrosion by the use of optimised and patented organic corrosion inhibitors. Excellent and lasting high temperature corrosion protection is provided for the aluminium heat transfer surfaces contained in modern engines. The inhibitor package of Mobil Coolant Extended Long Life 50/50 Ready Mixed offers excellent cavitation protection even without using nitrite or nitrite-based supplemental coolant additives (SCA's).

Miscibility

Mobil Coolant Extended Long Life 50/50 Ready Mixed is used as a cooling and heat transferring fluid in combustion engines. Excessive heat is transferred via the fluid to the radiator where the mixture is cooled by means of airflow. Mobil Coolant Extended Long Life 50/50 Ready Mixed is compatible with most other coolants based on ethylene glycol. Exclusive use of Mobil Coolant Extended Long Life 50/50 Ready Mixed is however recommended for optimum corrosion protection and sludge control.

Chemical nature

Ethylene glycol with organic corrosion inhibitors.

Appearance

Clear liquid

Chemical and physical properties

Mobil Coolant Extended Long Life 50/50 Ready Mixed	50% dilution	Method
pH	8.6	ASTM D1287
Foaming properties at 25°C	50 ml typ.	ASTM D1881
Break time	5 sec. typ.	
Foaming properties at 88°C	50 ml typ.	ASTM D1881
Break time	5 sec. typ.	
Initial crystallisation	< - 37°C	ASTM D1177
Freezing protection	- 40°C typ.	
Specific gravity, 20°C	1.068 typ.	ASTM D5931
Reserve alkalinity (pH 5.5)	3.0 typ.	ASTM D1121
Refractive Index, 20°C	1.385 typ.	ASTM D1218
Equilibrium boiling point	108°C typ.	ASTM D1120
Effect on non-metals	no effect	GME60 255
Staining characteristics	-	ASTM D1882
Hard water stability	No precipitate	VW PV 1426

Frost Protection

Freezing Point: 50% Vol. Solution, ASTMD 1177 -36°C

Mobil™ Coolant Extended Long Life 50/50

Data Sheets

Quality Control

The listed data represent average values at the time of going to press of this Data Sheet. They are intended as a guide to facilitate handling and cannot be regarded as specified data. Specified product data are issued as a separate product specification.

Packaging

Mobil Coolant Extended Long Life 50/50 Ready Mixed is available in 20L 208L and 1000L pack sizes.

Handling

- Minor spills should be soaked up with oil absorbent granules, sand or dirt. The spillage site should then be washed with soapy water and dried.
- Wash off any spillage on paintwork immediately.
- Avoid contact with galvanised equipment when storing or dispensing this product, as this will prompt a corrosive reaction.

Shelf Life

- Mobil Coolant Extended Long Life 50/50 Ready Mixed can be stored for minimum 8 years in unopened containers without any effect on the product quality or performance. The product should be stored above -20 °C and preferably at ambient temperatures. Periods of exposure to temperatures above 35 °C should be minimised.
- All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should not be exposed to hot sun or freezing conditions.
- Manufacture date can be identified from an eight digit code printed on the bottle. YYYY.MM.DD.

Colour

Clear liquid, orange fluorescent in colour

Safety

When using this product, the information and advice given in our Safety Data Sheet should be observed. Due attention should also be given to the precautions necessary for handling chemicals.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

Terms & Conditions: © 2020. All rights reserved to Moove Lubricants Limited. Mobil and Mobil products named in this material are registered brands and trademarks of Exxon Mobil Corporation or one of its subsidiaries, licensed for use to Moove Lubricants Limited who are responsible for this document and the use of such trademarks within it. No part of this document or any trademark is permitted to be copied, reproduced or otherwise used or applied without prior consent.

Manufactured by Moove Lubricants Limited.
Operations Plant Dering Way, Gravesend, Kent DA12 2QX +44 (0) 1474 564 311

www.mobil-ancillaries.com

