

# PRODUCT INFORMATION



HT-12<sup>®</sup> and Frostox are brands  
of HAERTOL Chemie

*Automotive Chemicals – Antifreeze Coolant*

Version: **2020/45#1a**

## Valvoline<sup>™</sup> HT-12<sup>™</sup> ANTIFREEZE COOLANT Green

The Latest Patented\* Coolant Technology for BMW, MINI & Rolls-Royce

Valvoline HT-12 Antifreeze Coolant Green is a superior engine coolant developed to fulfill the latest requirements of most high performance engines and provide an extended service life up to 5 years or 250.000 km.

This Si-OAT formulation incorporates state-of-the-art organic acid technology in an ethylene glycol base for excellent protection of all cooling system components and metals including aluminum. Valvoline HT-12 Green is free of phosphates, nitrites, amines and borates and is compatible even with tap water.

When concentrate diluted 50% with water, Valvoline HT-12 Antifreeze Coolant Green protects modern engine components from winter freezing and summer boiling. The chart below provides detailed mixing information and minimum water quality requirements.

Approvals
BMW LC-18
Performance levels
ASTM D3306
ASTM D4985
ASTM D6210
AS 2108-2004
BS 6580:2010
BMW LC-87

Performance levels
Cummins CES 14603, CES 14439
CUNA NC 956-16
Deutz DQC CC-14
GB 29743-2013
JIS K 2234:2006
ONORM V 5123
PN-C40007:2000
SANS 1251:2005

### Features and Benefits

#### Patented\* formula for superior protection

Valvoline HT-12 Green coolant is a premium grade coolant that provides outstanding protection to vital engine parts such as coolant channels in engine block, cylinder heads (liner pitting), radiator and water pump against corrosion, overheating and frost. It contains a high quality defoamer and will not harm gaskets, hoses, plastics or original vehicle paint.

\*Patent no EP2744869B1

#### Applications

Compatible with BMW from 1988 (LC-87)

#### OEM approved coolant

Valvoline HT-12 Antifreeze Coolant Green is approved by BMW according to the LC-18 specification.

TRUSTED FOR 150 YEARS<sup>™</sup>

VALVOLINE EUROPE  
WIELDRECHTSEWEG 39  
3316 BG DORDRECHT  
NETHERLANDS

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## 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; 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.valvolineurope.com](http://www.valvolineurope.com) or <https://pisheets.valvoline.com/>

## Typical properties

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

Valvoline HT-12 Antifreeze Coolant Green	
Appearance	Liquid
Colour	Green
Reserve alkalinity* (ml), ASTM D1121	>10
Boiling point* (°C) ASTM D1120	>170
Density* g/cm <sup>3</sup> @20°C, ASTM D1122	1,123 – 1,128
pH value (50 vol%), ASTM D1287	8,3 – 8.6
Storage stability	Up to 5 years

\* Concentrate \*\* When diluted 50/50 with water

## Material numbers

Packaging	Concentrate	Ready to use
12/1L		889279
4/5L		896129
60L KE	889239	

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

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## Health & Safety

This product is not likely to present any significant health or safety hazards when properly used in the recommended application and good standards of personal hygiene are maintained. Reference is made to the Safety Data Sheet (SDS) which is available on request via your local sales office or via the internet.

<http://sds.valvoline.com>

## Protect the environment

Take used coolant to an authorized collection point. Comply with local regulations. Do not discharge into drains, soil or water.

## Storage

We recommend storing 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.

## Valvoline HT-12 Concentrate Green Mixing Table

Concentrate mixed with water	Freezing Point °C
40% concentrate	-24
50% concentrate	-36
60% concentrate	-48
70% concentrate*	-67

\*Maximum freeze protection is at 70%

## Minimum Water Quality Requirements

Parameter	Requirement
pH value	6,0 - 8,0
Water hardness	< 20
Conductivity	100 - 400
Calcium	< 60
Copper	< 0,1
Sulfate	< 50
Chloride	< 40
Iron	< 0,2
Fluoride	< 50

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