



Automotive Chemicals – Coolant Antifreeze

Version: 2011/14#6

Valvoline™ HD Extended Life Concentrate

One product, for all trucks and buses, reduces inventory, no mis-applications.

HD Extended Life is an engine coolant for trucks, buses, road construction machines and industrial equipment, which fulfills the requirements of most leading heavy-duty engine manufacturers. The product is free of amines, borates and phosphates, which makes it friendlier to the environment. HD Extended Life Coolant protects cooling systems against frost, corrosion and overheating for at least three years, 7.000 hours or 500.000 kilometers. The product is mixable with other coolants on basis of mono ethylene glycol, but that may shorten the long-life characteristics. It cannot be mixed with products on basis of Propylene Glycol. Depending on the desired protection against freezing the product can be mixed with water in several concentrations. (see chart at the bottom of this sheet).

The product is suitable for use in HOAT, OAT, and Si-OAT application.

Performance levels

HD Extended Life Concentrate
Afnor 15-601, 1991
Association Française de Normalisation
ASTM D-6210, D-4985
American Society of the International Association for Testing and Materials
BS 6580, 1992
British Standards
Cuna NC956-16
Commissione Unificazione Normalizzazione Autoveicolo
O-Norm V5123
Austrian Standards
SAE J814C, J1941
Society of Automotive Engineers,

HD Extended Life Concentrate
Cummins 14603 Approved, 3666286
Caterpillar EC-1
DAF/Leyland
Deutz MWM
Detroit Diesel 7SE 298
Ford WSS M97 B44-D
IVECO 18-1830
MAN 324 type NF
MAN B&W
MB 325.0,2,3,5,6
MTU MTL 5048
Renault (Glacool RX type D)
Scania
Volvo VCS

Features and Benefits

Unique formula for superior long-life protection

Long-Life protection by means of a unique formulation with heavy duty corrosion inhibitors to protect all cooling system metals and anti-scaling chemistry to prevent hard water scale and deposits. Unsurpassed protection for the cooling system against winter freezing and summertime overheating.

Suitable for modern and older engines

HD Extended Life coolant protects modern vehicles with aluminum engines as well as older vehicles with cast-iron engines against corrosion and scaling. It will extend the life-span of the cooling system.

No mis-applications and lowers cost of operation

HD Extended Life coolant can be used for all HD engines with all materials. Therefore, less mistakes and less storage. It provides long term protection to the cooling system of the engine for at least three years, 7.000 hours or 500.000 kilometers which lowers cost of operation.

Deposit control

The formulation contains extra anti-scaling additives and corrosion inhibitors to prevent the build-up of performance limiting deposits. It can keep the cooling system working efficiently by keeping heat transfer surfaces and passages clean.

PRODUCT INFORMATION



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

Typical properties

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

HD Extended Life Concentrate	
Appearance	Liquid
Colour	Red
Boiling point °C.	163 min.*
Flash point °C. PMCC	121
pH 50% V/V (ASTM D-1287)	10,5
Density g/cm ³ @ 20 °C. DIN 51757	1,118 – 1,133
Hard water stability	Stable

* Boiling Point shown using conventional 15 psi Radiator cap.

Freezing Temperature:

50% vol. in water. °C, -38
33% vol. in water. °C, -18

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://msds.valvoline.com>

Protect the environment

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

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.

Replaces – 2011/14#5