



Calguard 100 & Calguard 50

Long Life Anti-freeze & Coolant

Calguard Antifreeze and Coolant is a hybrid antifreeze, based on silicate and carboxylate inhibitor technology, it is a nitrite, amine and phosphate free MEG based antifreeze and summer coolant that provides maintenance free protection against freezing and boiling but also gives excellent corrosion protection in cooling systems when mixed with the appropriate amounts of water.

Calguard fully meets BS 6580 and is available in concentrate (neat) form or as a 50/50 ready mix solution.

Features & Benefits

- Extended Life over conventional antifreezes and coolants
- All year round protection due to low additive depletion

Applications

Typical mixtures in Northern Europe are 50/50, offering frost protection down to -40°C. Mixtures with more than 70 vol. % Calguard in water are not recommended. The maximum frost protection (approx -69 °C) is obtained at 68 vol. % Calguard.

Calguard fully meets the requirements of many car and truck engine makers:

Ford	specification ESD M97B49-A
Fiat	specification MS7 170
GM	specification GME L1301
Iveco	specification 18-1830
MAN	specification 324
MTU	specification MTL 5048
Volkswagen	specification TL 774
Volvo	specification 128 6083/002

Safety information sheets are available for all Optimum products from the address below:

1 Ullenwood Court · Ullenwood · Cheltenham · Gloucestershire · GL53 9QS
 Head Office: 01242 253 333 · Customer Services & Orders: 08719 188 881 · Fax: 08719 189 998
 Email: technical@optimumoils.com · Web: www.optimumoils.com

All reasonable care has been taken to ensure that the information contained in this publication is accurate at the date of printing. The above information may be affected by changes occurring subsequent to the date of printing in the formulation and its application for the products referred to or in the requirements of any specification or approval relating to any such products.



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Storage Requirements

Calguard should be stored above -20°C and preferably at ambient temperatures. Periods of exposure to temperatures above 35°C should be minimized. Further, it is strongly advised to store coolant filled in translucent packages indoors as exposure of coolant in translucent packages to direct sunlight can degrade the colour dyes present and result in fading or discoloration over time.

Calguard can be stored for minimum 5 years in unopened containers without any effect on the product quality or performance. As with any antifreeze coolant, the use of galvanized steel is not recommended for pipes or any other part of the storage/mixing installation.

Typical Physical Data

	Calguard 100	Calguard 50
Appearance	Green/Blue	
Relative Density (kg/m ³ @20°C)	1.125	1.076
pH (20°C)	7.2	-
Refractive Index (Cst@40°C)	-	1.432
Water Content (% v/v)	3.5	50
Freeze Protection (°C)	-	-40

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