



# Calfrost 100 & Calfrost 50

## High Performance Anti-freeze & Coolant

Calfrost is an organic additive technology based product, it is a nitrate, amine, phosphate, borate and silicate 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. Extended coolant life, often for the whole life of the engine or vehicle, is obtained through the use of virtually non-depleting corrosion inhibitors being suitable for engine metal types particularly Ferrous and Aluminium.

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

During extensive fleet testing 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.

### Features & Benefits

- Extended Life
- Improved Heat Transfer
- Improved Hard Water Stability
- Suitable for Mixed Fleets
- Environmentally Friendly
- Reduced time and costs of repair

### Applications

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

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](mailto:technical@optimumoils.com) · Web: [www.optimumoils.com](http://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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Calfrost fully meets the requirements of many car and truck engine makers:

Caterpillar	MAK 04
Cummins	IS Series
Cummins	CES 14603
Ford	specification WSS-M97B44-D
Mercedes-Benz	specification 325.3
General Motors	specification GM 6277M
MAN	specification 324 type SNF
Mazda	specification MEZ MN 121D
MTU	specification MTL 5048
Volkswagen	specification TL 774F

## Typical Physical Data

	Calfrost 100	Calfrost 50
Appearance	Orange	
Relative Density (kg/m <sup>3</sup> @20°C)	1.113	1.068
pH (20°C)	8.6	-
Refractive Index (Cst@40°C)	-	1.385
Water Content (% v/v)	5	50
Freeze Protection (°C)	-	-40

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## Storage Requirements

Calfrost 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 not to expose the coolant in translucent packages to direct sunlight as this can degrade the colour dyes present in the coolant, and result in fading of the colour or discoloration over time. It is therefore advisable to store coolant filled in translucent packages indoors to avoid this issue.

Calfrost can be stored for minimum 8 years in unopened containers without any effect on the product quality or performance. It is strongly recommended to use new containers and not recycled ones. As with any antifreeze coolant, the use of galvanized steel is not recommended for pipes or any other part of the storage/mixing installation.

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