

# Coolant

// Super Long Life // Long Life

# Brake Fluid

// Dot 4 // Dot 5.1 // Specialist



# About Us

## NZ OWNED & OPERATED

We are market leaders through innovation, service, diverse/high quality ranges and a skilled staff passionate about the industry they work in. We believe our enthusiasm is one of the things that sets us apart from other oil companies and surpass what's on offer from oil distributors. With rigorous R & D, and investment in our business and our people, we have developed into a truly professional oil company. We pride ourselves in our understanding of our given markets. This includes not just our customer base, but industry categories as a whole.

## WHAT WE DO

At Lubricants NZ, we've curated a skill set that's the envy of the industry. We provide the most complete product offering for the market. Our combination of expertise & solutions focus means less fuss, increased service & your satisfaction. We specialise in the supply and delivery of oils, grease, coolant, chemicals and AdBlue.

## SERVICE

We have a dedicated customer services team in each of our regions, along with territory managers in the field. At Lubricants NZ, we've found communication creates success. Working with us, you'll receive a sensitivity toward your commercial needs and an open door approach designed to resolve issues.

## OUR RANGE

The premium Vertex Coolant and Brake Fluid range is manufactured from market leading base products. This range covers any application/requirement you may encounter. From under warranty fluids to specific products for your pride and joy, no matter the application, we have a solution.

Vertex Coolants and Brake Fluids are always made with our customers interests foremost in our minds. You will commonly see even the basic coolants in our range are long life. Our customers demand long lifespan from their fluids, and we always utilise the best and purest base stock, and a market leading concentrations of OEM additives/inhibitors.

All Vertex products are used extensively in the market by many of NZ's largest companies and brands.

From Automotive, Mining, Agriculture, Transport, Commercial, Shipping, Industrial Manufacturing to Railways Applications, the Vertex brand has been tried and proven in the most demanding environments.

We specialise and provide you the partnership you deserve. For a first class product with a range second to none, Vertex is the smart choice.



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Visit our Lube Guide for detailed recommendations for your vehicle listings by compartment. You can find us online at [www.vertexlubricants.co.nz](http://www.vertexlubricants.co.nz).

Alternatively you can click on the QR code below.



Vertex Oil Selector

# Coolant

// Super Long Life // Long Life





## Glysantin G40

A premium-grade concentrate coolant that belongs to the new generation of Glysantin® products. This product employs hybrid organic acid technology (Si-OAT). Especially formulated for European heavy vehicle application and the protection of heavy diesel wet sleeve liners.

Compatible with both conventional and OAT coolants although to get best performance (regarding issues such as extended life and time between SCA additions) it is best to flush the old coolant and replace with Vertex Glysantin® G40.



Vertex Glysantin® G40 combines the advantages of coolants that contain silicates and those that are free of silicates, i.e. excellent protection from corrosion and a long working life.

### Suitable for:

Use in European OEM's such as Mercedes Benz, MAN and VAG vehicles. It fully meets or exceeds standard industry requirements for automotive, light duty, and heavy duty diesel applications. Formulated to provide excellent high temperature protection as well as long term corrosion protection for aluminium, cast iron, brass, copper, steel and solder.

**ASTM D 4985 • AUDI: TL 774 G • BENTLEY: TL 774 G • BUGATTI: TL 774 G • CUMMINS: CES 14603 • LAMBORGHINI: TL 774 GMAN (BUILT AS FROM 12/2011): MAN 324 TYP SI-OAT • MERCEDES-BENZ 325.5 • MTU: MTL 5048 • SEAT/ŠKODA/VW: TL 774 G • PORSCHE**

Product Code	Pack Size	Product Features
VCGLYG40/C3B5L	5 Litre Pack Concentrate	• Super Long Life
VCGLYG40/P20L	20 Litre Pail Concentrate	• Si-Oat Technology
VCGLYG40/D205L	205 Litre Drum Concentrate	• Violet Coloured
VCGLYRTP/C3B5L	5 Litre Pack Premixed	
VCGLYRTP/P20L	20 Litre Pail Premixed	
VCGLYRTP/P205L	205 Litre Drum Premixed	

# Coolant



## PG Cool

Vertex PG Cool is a Propylene Glycol based long life hybrid antifreeze/coolant. Contains very low silicates and is nitrite, phosphate and amine free. Formulated to provide excellent high temperature protection as well as long term corrosion protection for aluminium, cast iron, brass, copper, steel and solder.

Vertex PG Cool is compatible with both conventional and OAT coolants although to get best performance it is best to flush the old coolant and replace with Vertex PG Cool.



### Suitable for:

Use in mixed fleet applications, and those applications where the toxicity of the coolant is an issue. Vertex PG Cool is designed for universal use, it fully meets or exceeds standard industry requirements for automotive, light duty, and heavy duty diesel applications.

Low Toxicity Base Fluid (compared to Mono Ethylene or Di-ethylene glycols).

Vertex PG Cool is miscible with all Vertex coolant types.

**AFNOR NFR 15-601 • ASTM D 4985 • ASTM D 6210 • SAE J1034 • SAE J1941 • JIS K2234 • US FEDERAL - A-A-870-A - MACK • VOLVO LANDROVER • KENWORTH RO26-170-97 • HYUNDAI • FREIGHTLINER 48-2288D • DAIMLERCHRYSLER MS 7170/MS 9769 - SAAB-SCANIA 6901 GM 1825M • GM 1899M • MTU MTL 5048 • MERCEDES BENZ DBL 325 • CAT EC1 • CAT ELC • MAN 324 NF • FORD ESE-M97B44D ESE-M97B18-C • FORD WSS- M97B51-A1 • DETROIT DIESEL 7SE 298 • CUMMINS 14603 • NH WSN-M97B18-D - PERKINS - TMC RP 329**

Product Code	Pack Size	Product Features
VCPGCC/C3B5L	5 Litre Pack Concentrate	• Super Long Life
VCPGCC/P20L	20 Litre Pail Concentrate	• HOAT Technology
VCPGCC/D205L	205 Litre Drum Concentrate	• Red Coloured
VCPGCRTP/C3B5L	5 Litre Pack Premixed	• Low Toxicity
VCPGCRTP/P20L	20 Litre Pail Premixed	
VCPGCRTP/P205L	205 Litre Drum Premixed	



## HDD Cool

A super long life anti freeze, anti boil product for use in all radiator types. Vertex HDD Cool is manufactured using Hybrid Additive Technology. Designed for Universal use, it fully meets or exceeds standard industry requirements for universal applications. Compatible with both conventional and OAT coolants although to get best performance (regarding issues such as extended life) it is best to flush the old coolant and replace with Vertex HDD Cool.

### Suitable for:

Use in mixed fleet applications, and those applications not requiring an SNF or Si-OAT coolant. It does not require an initial charge of supplemental coolant additives (SCAs) upon initial fill. Specially formulated to protect heavy duty diesel wet sleeve liners. SCA addition is application dependent and should only be added as and when required by the vehicle's OEM.

For use in European, Asian and American vehicles • perfect for mixing with other colours

**AFNOR NFR 15-601 • ASTM D 4985 • ASTM D 6210 • SAE J1034 • SAE J1941 • JIS K2234 • US Federal - A-A-870-A - Mack • Volvo Landrover • Kenworth RO26-170-97 • Hyundai • Freightliner 48-2288D • DaimlerChrysler MS 7170/MS 9769 - Saab-Scania 6901 GM 1825M • GM 1899M • MTU MTL 5048 • Mercedes Benz DBL 325 • Cat EC1 • Cat ELC • MAN 324 NF • Ford ESE-M97B44D ESE-M97B18-C • Ford WSS- M97B51-A1 • Detroit Diesel 7SE 298 • Cummins 14603 • NH WSN-M97B18-D • Perkins • TMC RP 329**

Product Code	Pack Size	Product Features
VCHDDC/C12B1L	1 Litre Pack Concentrate	• Super Long Life
VCHDDC/C6B5L	5 Litre Pack Concentrate	• HOAT Technology
VCHDDC/P20L	20 Litre Pail Concentrate	• Yellow Coloured
VCHDDC/D205L	205 Litre Drum Concentrate	
VCHDDCRTP/C3B5L	5 Litre Pack Premixed	
VCHDDCRTP/P20L	20 Litre Pail Premixed	
VCHDDCRTP/P205L	205 Litre Drum Premixed	

# Coolant



## Red Cool 950 MG XL

A super long life anti freeze, anti boil product for use in all radiator types. Vertex Red Cool 950 MG XL is manufactured using Hybrid Additive Technology. Nitrite Free formulation. Designed for universal use, it fully meets or exceeds standard industry requirements for automotive, light duty, and heavy duty diesel applications.

### Suitable for:

Use in mixed fleet applications, and those applications not requiring an SNF or Si-OAT coolant. It does not require an initial charge of supplemental coolant additives (SCAs) upon initial fill. Specially formulated to protect heavy duty diesel wet sleeve liners. SCA addition is application dependent and should only be added as and when required by the vehicle's OEM.



Compatible with both conventional and OAT coolants although to get best performance (regarding issues such as extended life) it is best to flush the old coolant and replace with Vertex Red Cool 950 MG XL.

For use in European, Asian and American vehicles.

**AFNOR NFR 15-601 • ASTM D 4985 • ASTM D 6210 • SAE J1034 • SAE J1941 • JIS K2234 • US Federal - A-A-870-A - Mack • Volvo Landrover • Kenworth RO26-170-97 • Hyundai • Freightliner 48-2288D • DaimlerChrysler MS 7170/MS 9769 - Saab-Scania 6901 GM 1825M • GM 1899M • MTU MTL 5048 • Mercedes Benz DBL 325 • Cat EC1 • Cat ELC • MAN 324 NF • Ford ESE-M97B44D ESE-M97B18-C • Ford WSS- M97B51-A1 • Detroit Diesel 7SE 298 • Cummins 14603 • NH WSN-M97B18-D • Perkins • TMC RP 329**

Product Code	Pack Size	Product Features
VCRC9MGXL/C12B1	1 Litre Pack Concentrate	• Super Long Life
VCRC9MGXL/C3B5L	5 Litre Pack Concentrate	• HOAT Technology
VCRC9MGXL/P20L	20 Litre Pail Concentrate	• Red Coloured
VCRC9MGXL/D205L	205 Litre Drum Concentrate	
VCRC9RTP/C3B5L	5 Litre Pack Premixed	
VCRC9RTP/P20L	20 Litre Pail Premixed	
VCRC9RTP/P205L	205 Litre Drum Premixed	



## Auto Cool

A low silicate phosphate free proprietary blend designed to meet the performance requirements of passenger cars, 4WDs and light commercial vehicles. Due to an advanced formula, Vertex Auto Cool offers optimum protection against corrosion of all cooling system metals. Extending the operating temperature range of cooling systems and reduces nucleate or hot spot boiling.

### Suitable for:

Use in lean burn engines where higher than normal temperatures are achieved in the cylinder head and block. Borate, nitrite, amine and phosphate free. Vertex Auto Cool provides the following benefits: Coloured fluorescent green to help identification of leaks. Drain interval of 3 years or 250,000 kilometres. Not aggressive to water pump seals as can be the case with coolants containing high level of silicates. Contains a minimum of 90% MEG content.

For use in Japanese and Australian vehicles • Suitable for a wide range of European vehicles

**ASTM D-3306/D-4340/D-4985 • AS 2108.1:2004 Type A • GM 1825M/1899M • FORD ESE M97B44-A/M97B18-C BSI 6580 • JIS 2234 • SAE J1034/J1941**

Product Code	Pack Size	Product Features
VCACC/C20B1L	1 Litre Pack Concentrate	• Long Life
VCACC/C6B5L	5 Litre Pack Concentrate	• HOAT Technology
VCACC/P20L	20 Litre Pail Concentrate	• Green Coloured
VCACC/D205L	205 Litre Drum Concentrate	
VCACRTP/P20L	20 Litre Pail Premixed	
VCACRTP/D205L	205 Litre Drum Premixed	

## Coolant FAQ

### Why is the Glycol % of an antifreeze so important?

Coolant/Antifreeze is made up of Water, Glycol and Additives. The Glycol % for a concentrate should be 90% or higher. As water has a freezing point of 0°C, this glycol helps the fluid in your radiator from freezing, expanding and causing irreparable damage to your engine in cold climates.

### Does Colour signify the type of Coolant?

The colour of a coolant has no bearing or relationship to its' performance. It is merely a dye that all manufacturers put in their products. They are normally fluorescent to assist leak identification, and may often be dyed to an industry norm (e.g green for basic automotive), but this is all.

### What is a "wet sleeve" and how does it relate to coolant?

In a "wet-sleeve" engine, pistons operate in steel cylinders (sleeves or liners) that are sealed into upper and lower rings within the open structure of the block. Combustion forces set up a natural vibration in the sleeves, causing the sleeve walls to pull rapidly away from the coolant, creating a low-pressure area in which the surrounding coolant boils and forms tiny air bubbles. Then, as the sleeve springs back, it slams into the bubbles, causing the bubbles to collapse, or implode, violently (cavitation).

If your coolant is of the incorrect type, or not containing sufficient additives, it will not protect against cavitation and cause micro-pitting to form, left unchecked, this "pitting" process can eventually perforate the sleeve wall, allowing coolant into the cylinder, where its incompressible nature can crack blocks, break pistons and bend rods.

A good coolant will negate this by maintaining a film of cavitation-resistant native oxides on the sleeve's outer wall.

### What are the main types of coolant chemistry available?

IAT Inorganic Acid Technology - Very rarely used these days. Can be prone to radiator blockages.

OAT Organic Acid Technology - Found in first fill coolant in European trucks and cars. Offers very long life

HOAT Hybrid Organic Acid Technology - falls between the IAT and OAT types and are commonly called Universal Coolants.

# Brake Fluids

// Synthetic // Mineral





## DBF Super Dot 4

Vertex DBF Super Dot 4 is an ultra high performance synthetic (polyalkylene glycol ether and borate ester ) brake fluid. Specially developed for hydraulic brake and clutch systems, to ensure safe braking in premium and high performance cars.

### Suitable for:

Use in Clutch systems in all cars, trucks and equipment that require a non petroleum based DOT 3, DOT 4 or Super DOT 4 brake & clutch hydraulic fluid. For best results, the system should always be flushed prior to first fill or before refilling the system.

Recommended for all hydraulic brake and clutch applications using disc or drum brakes, with the exception of those for which mineral oil is prescribed \*

All brake fluids which contain glycol ethers should be used with care. Avoid spilling this product on paintwork as it may have a damaging effect. In the advent of a spill, rinse the affected area with water immediately . Do not wipe!

- Provides great braking safety. • Compatible with all common brake system materials.
- Compatible with DOT 3, DOT 4 & DOT 5.1 (low temperature, non-silicone type).

**FMVSS DOT 4 • AS 1960.1-1995 • JIS K2233 ISO 4925 US • FMVSS No 116 Super DOT 4 • Holden HN 1796 • Ford ESZ-M6C55-A**

Product Code	Pack Size	Product Features
VBFDOT4/C12B1L	1 Litre	• Synthetic
VBFDOT4/C6B5L	5 Litre	• Dot 4 Plus
VBFDOT4/J20L	20 Litre	



## DBF ABS Dot 5.1

Vertex DBF Dot 5.1 is an ultra high performance synthetic (polyalkylene glycol ether and borate ester) brake fluid. Specially developed for hydraulic brake and clutch systems, to ensure safe braking in premium and high performance cars. Fluidity specially designed for anti-locking brake systems (ABS). For best results, the system should always be flushed prior to first fill or before refilling the system.

### Suitable primarily for:

The requirements of Dot 5.1. May also be used for all hydraulic brake and clutch applications using disc or drum brakes, with the exception of those for which mineral oil is prescribed \*

All brake fluids which contain glycol ethers should be used with care. Avoid spilling this product on paintwork as it may have a damaging effect. In the advent of a spill, rinse the affected area with water immediately . Do not wipe!

- Provides great braking safety. • Compatible with all common brake system materials.
- Compatible with DOT 3, DOT 4 & DOT 5.1 (low temperature, non-silicone type).

**FMVSS NR. 116 DOT 5.1 • ISO 4925 CLASS 3/4/5.1 • SAE J 1703/J 1704**

Product Code	Pack Size	Product Features
VBFDOT51/C12B1L	1 Litre	• Full Synthetic
VBFDOT51/C3B5L	5 Litre	• Petrol
VBFDOT51/P20L	20 Litre	• Diesel

# Brake Fluids



## LHM Plus

Vertex LHM+ is a specialist very high viscosity index oil for use in power steering, suspension, hydraulic and braking systems. Dyed green for easy identification.

### Suitable for:

Use in ISO 7308 for petroleum based fluids used in stored energy systems. Recommended for service re-fill or top-up of hydraulic suspensions systems, braking and power steering systems where the manufacturer calls for a mineral based LHM fluid (for synthetic use Vertex Power Steer Syn 202). LHM Plus is specified by manufacturers that require this product including Citroen, Peugeot, Jaguar, Rolls Royce, BMW and certain agricultural OEM's. Suitable for other vehicle suspension systems and in vehicles requiring mineral brake fluid. Can also be used as a replacement for 7.5W fork oil for motorcycles.

Vertex Power Steer LHM+ provides the following benefits: Protects against wear and corrosion, good flow rates of fluid at extremes of temperature, compatible with LHM/LHM+ OEM Fluids. Will not harm internal parts, seals and hoses.

**Renault PSA B71 2710 • Ford ESN-M6C59-A • ISO 7308 • Massey Ferguson MF 1151 • VW 2000**

Product Code	Pack Size	Product Features
VPSLHM+/C12B1L	1 Litre	• Mineral
VPSLHM+/C3B5L	5 Litre	• LHM
VPSLHM+/P20L	20 Litre	• Green

## Brake Fluid Types

Brake fluids are categorized into four main classifications by the U.S. Department of Transportation (DOT): DOT 3, DOT 4, DOT 5 and DOT 5.1. Most fluids fall into the DOT 3, DOT 4 or DOT 5.1 classification. These fluids are all hygroscopic, which means they absorb moisture from the air. DOT 5 fluids are not hygroscopic but are often used in vehicles that sit for long periods of time, such as collector cars or military vehicles.

	Dry Boiling Point	Wet Boiling Point	Viscosity @ -40°C	Viscosity @ 100°C	Chemical Composition
Dot 2	190°C/374°F	140°C/284°F	-	-	Castor Oil/Alcohol
Dot 3	205°C/401°F	140°C/284°F	Max. 1,500 mm²/s	Min. 1.5 mm²/s	Glycol Ether
Dot 4	230°C/446°F	155°C/311°F	Max. 1,800 mm²/s	Min. 1.5 mm²/s	Glycol Ether/Borate Ester
Dot 4+, Super Dot 4	300°C/572°F	180°C/356°F	Max. 750 mm²/s	Min. 1.5 mm²/s	Glycol Ether/Borate Ester
Dot 5	260°C/500°F	180°C/356°F	Max. 900 mm²/s	Min. 1.5 mm²/s	Silicone
Dot 5.1	260°C/500°F	180°C/356°F	Max. 900 mm²/s	Min. 1.5 mm²/s	Borate Ester/Glycol Ether
LHM+	249°C/480°F	249°C/480°F	1,000-1,200 mm²/s	6-6.5 mm²/s	Mineral Oil

# Our Products

## LUBRICANTS

OEM, Engine Oils, Transmission Oils, Hydraulic Oils, Motorcycle Oils, Power Train Oils, Marine Lubricants, Industrial Oils, Biodegradable, Foodgrade & Environmentally Responsible Fluids.

## GREASE

OEM, High Speed, Low Speed, Water Proof, Wire Rope, Moly, High Temp, Foodgrade, Biodegradable, NLGI 000-3.

## COOLANTS

OEM, Long Life, Super Long Life, Propylene Glycol, Mono Ethylene Glycol, Si-OAT, NAPS Free, Glysantin.

## CHEMICALS

Degreasers, Detergents, Aerosols, Non Flammable, Non Toxic, Water Based, Biodegradable, Electrical Cleaners, Paints.

## ADBLUE

OEM, VDA Approved, Manufactured to ISO22241, IBC's, 205L, 20L, 5L.

## FLEET PLANT LUBRICATION AUDITS

Product Rationalisation, Fuel Savings, OEM Compliance, Fit for use analysis.

## FLEET PLANT LUBRICATION SURVEYS

Drain Interval Optimisation, Contamination Control, Fluid Handling Best Practices, HSSE Compliance, Fleet Lubrication Lists.

## LUBRICATION EQUIPMENT

Oil and Grease Pumping Equipment, Bulk Storage Tanks, Waste Oil Tanks, Fluid Monitoring Systems, Hose Reels, Dispensing Hand Pieces, Consumables.

## FLUID CONDITION MONITORING

Oil Analysis, Oil Analysis Interpretation, Wear Trending, Contamination Control, Lifespan Expansion of Plant.

## IN HOUSE SPECIALISTS

Oil Analysis Engineer, Lubrication Design and Fabrication Engineer, Fluid Transfer Technicians.





Oils // Grease // Coolant // Chemicals

## Contact Us

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