



Donaldson Delivers

# THERMO-TECH COOLANT

For Heavy Duty Applications



# THERMO-TECH Heavy-Duty Coolant

Donaldson's Thermo-Tech range covers all of your fleet coolant needs, including conventional heavy-duty technologies, environmentally friendly organic product, and our superior long life propylene glycol hybrid offering.



## THERMO-TECH TECHNOLOGY PROVIDES SUPERIOR ENGINE PROTECTION IN THE HARSHEST ENVIRONMENTS

Our coolants provide complete protection for all types of diesel, petrol and gas engines and are suited to a wide variety of applications including:

- Heavy-duty mining vehicles
- On-road heavy, medium and light-duty trucks
- Off-road, agriculture and construction equipment
- 4WDs (petrol & diesel)
- All passenger vehicles

Modern engines produce vast amounts of heat. Cooling system maintenance is critical.

Industry estimates indicate that up to 40% of engine downtime is due to cooling system failures.

Your engine coolant may battle rust, scale formation, acidity, foaming, silicate dropout and debris while it works to transfer heat and maintain the correct operating conditions for optimal engine performance.

Donaldson is a brand that you can trust to provide the best care for your engine. Our products work as hard as you do. For more information of Donaldson Thermo-Tech products and access to Safety Data Sheets (SDS) visit us at; [donaldson.com](http://donaldson.com)

# THERMO-TECH Heavy-Duty Coolant Range

## Premium Hybrid



### PG

#### Propylene Glycol

Thermo-Tech PG is the premium coolant in our range designed for use with all types of diesel, petrol and LPG engines, premixed and ready to use.

- Extended Life
- Superior Protection
- Lasts up to 6 years, 12,000 hours or 1,000,000 kilometers in heavy duty applications

## Conventional



### EG

#### Ethylene Glycol

Thermo-Tech EG is a conventional coolant based on a proprietary formulation of corrosion inhibitors specially formulated to protect heavy-duty wet sleeve liners.

- Low Silicate
- Superior corrosion protection
- Lasts up to 2 years, 3,000 hours or 320,000 kilometers in heavy-duty applications

## Organic



### OAT

#### Organic Acid Technology

Thermo-Tech OAT is a water based, glycol free coolant based on a proprietary formulation of corrosion inhibitors.

- Extended Life
- Superior corrosion protection
- Last up to 4 years, 12,000 hours or 1,000,000 kilometers in heavy-duty applications

\* Fully compatible with all other Propylene Glycol (PG), Ethylene Glycol (EG) or Organic Acid Technology (OAT) coolants if being used as a top up.



Donaldson test kits offer a quick, one-minute test that helps you maintain that cooling system balance. Coolant system testing should be done at least twice a year or when major coolant loss occurs.

#### DONALDSON TEST STRIPS

4 Strip Test Pack	P901874
50 Strip Test Pack	P901899



# THERMO-TECH PG

## 6 YEARS - 1,000,000 KMS - 12,000 HRS

Thermo-Tech PG is the premium coolant in our range and (if required) is fully compatible with all other Propylene Glycol (PG), Ethylene Glycol (EG) or Organic Acid Technology (OAT) coolants. It is designed for use with all types of diesel, petrol and LPG engines and offers the following features:



- Premixed and ready to use
- Extended life without the need for supplemental coolant additives (SCAs)
- Lasts up to 6 years, 12,000 hours or 1,000,000 kilometres in heavy-duty applications
- Lasts up to 5 years or 250,000 kilometres in 4WDs and passenger vehicles
- Compatible with all other coolants (if being used as a top-up)
- Specially formulated to protect heavy-duty wet sleeve liners
- Hybrid technology has an outstanding track record in on and off-road applications

Donaldson Thermo-Tech PG is available in:	
	PREMIX
5 Litres	P903106
20 Litres	P903107
205 Litres	P903108
1000 Litres	P903109

Contains 495g/L propylene glycol

### standards

Donaldson Thermo-Tech PG coolants meet or exceed the following standards: ASTM D-1287, D-1881, D-1121, D-92, D-1122, D-1119, D-1177, D-3306, D-4985, D-6210, D-6211, D-6257, D-3634

And can be used where the following specifications are quoted or stated:

- SAE J1034, J1941
- GM 1825M, 1899M
- KENWORTH R026-170-97
- CATERPILLAR (other than EC-1)
- DAIMLER CHRYSLER MS 7170
- CASE NEW HOLLAND WSN-M97B18-D
- FORD ESE-M97B44A, ESE-M97B18C
- CUMMINS SB 3666132, CES 14603
- JOHN DEERE 8650-5
- MACK 014617004
- PETERBILT 8502.002
- CID-A-A52624
- DETROIT DIESEL 7SE 298
- DAF STANDARD MAT 74002
- FREIGHTLINER 48-22880
- US FED A-A-870-A
- WAUKESHA 4-1974D
- MAN 324 SNF
- NAVISTAR CEMS B-1
- EMD M.I. 1784E
- TMC RP 329
- PACCAR
- VOLVO
- MTU
- PERKINS
- IVECO
- TOYOTA
- LANDROVER
- KOMATSU
- SAAB-SCANIA
- MERCEDES BENZ

# THERMO-TECH EG

## 2 YEARS - 320,000 KMS - 3,000 HRS

Thermo-Tech EG is an Ethylene Glycol based coolant designed for use with all types of diesel, petrol and LPG engines. Thermo-Tech EG is a conventional coolant based on a proprietary formulation of corrosion inhibitors and offers the following features:



- No need for supplemental coolant additives (SCAs) upon initial fill
- Lasts up to 2 years, 3,000 hours or 320,000 kilometres in heavy-duty applications
- Lasts up to 3 years or 100,000 kilometres in 4WDs and passenger vehicles
- Compatible with other conventional coolants (if being used as a top-up)
- Specially formulated to protect heavy-duty wet sleeve liners

Donaldson Thermo-Tech EG is available in:		
	PREMIX	CONCENTRATE
5 Litres	P903100	-
20 Litres	P903101	P903104
205 Litres	P903102	P903105
1000 Litres	P903103	-

Premix contains 545g/L ethylene glycol

### standards

Donaldson Thermo-Tech EG coolants meet or exceed the following standards: ASTM D-1287, D-1881, D-1121, D-92, D-1122, D-1119, D-1177, D-3306, D-4985, D-6210, D-6211, D-6257, D-3634

And can be used where the following specifications are quoted or stated:

- SAE J1034, J1941
- GM 1825M, 1899M
- KENWORTH R026-170-97
- CATERPILLAR (other than EC-1)
- DAIMLER CHRYSLER MS 7170
- CASE NEW HOLLAND WSN-M97B18-D
- FORD ESE-M97B44A, ESE-M97B18C
- CUMMINS SB 3666132, CES 14603
- JOHN DEERE 8650-5
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- VOLVO
- MTU
- PERKINS
- IVECO
- TOYOTA
- LANDROVER
- KOMATSU
- SAAB-SCANIA
- MERCEDES BENZ

# THERMO-TECH OAT

## 4 YEARS - 1,000,000 KMS - 12,000 HRS



Thermo-Tech OAT (Organic Acid Technology) is a water based coolant designed for use with all types of diesel, petrol and LPG engines. Thermo-Tech OAT is a glycol free coolant based on a proprietary formulation of corrosion inhibitors & offers the following features:

- No need for supplemental coolant additives (SCAs) upon initial fill
- Lasts up to 4 years, 12,000 hours or 1,000,000 kilometres in heavy-duty applications
- Lasts up to 3 years or 100,000 kilometres in 4WDs and passenger vehicles
- Specially formulated to protect heavy-duty wet sleeve liners
- Organic formula is free from glycol, amine, borate, phosphate, nitrates, nitrites & silicate
- Compatible with other organic coolants (if being used as a top-up)

**Donaldson Thermo-Tech OAT is available in:**

PREMIX	
5 Litres	P903110
20 Litres	P903111
205 Litres	P903112
1000 Litres	P903113

### standards

Donaldson Thermo-Tech OAT coolants meet or exceed the following standards: ASTM D-3306, ASTM D-4985, AS/NZS 2108:2004 "Type B", SAE J1034 / J1941

And can be used where the following specifications are quoted or stated:

- |                                 |                            |                         |               |                 |
|---------------------------------|----------------------------|-------------------------|---------------|-----------------|
| • SAE J1034, J1941              | • DAIMLER CHRYSLER MS 7170 | • TMC RP 329            | • PACCAR      | • LANDROVER     |
| • GM 1825M, 1899M               | • JOHN DEERE 8650-5        | • CID-A-A52624          | • VOLVO       | • KOMATSU       |
| • KENWORTH R026-170-97          | • MACK 014617004           | • FREIGHTLINER 48-22880 | • MTU         | • MERCEDES BENZ |
| • CATERPILLAR (other than EC-1) | • PETERBILT 8502.002       | • WAUKESHA 4-1974D      | • PERKINS     |                 |
| • CUMMINS SB 3666132, CES 14603 | • DAF STANDARD MAT 74002   | • MAN 324 SNF           | • SAAB-SCANIA |                 |
| • CASE NEW HOLLAND WSN-M97B18-D | • DETROIT DIESEL 7SE 298   | • NAVISTAR CEMS B-1     | • IVECO       |                 |
| • FORD ESE-M97B44A, ESE-M97B18C | • US FED A-A-870-A         | • EMD M.I. 1784E        | • TOYOTA      |                 |

## Frequently Asked Questions

Are all coolants the same? If not, what is the difference?

No, all coolants are not the same. High quality coolants meet engine manufacturers coolant performance standards for automotive and heavy-duty diesel applications. The glycol content, inhibitor packages, anti-foam agents, scale inhibitors, and heat transfer properties vary between suppliers, and all have an impact upon coolants service life and performance. The Donaldson range meets major industry and engine manufacture engine coolant performance requirements, along with Australian Standard AS-2108-2004 for Type A Coolants.

Why do I need a quality formulated coolant?

High quality coolants provide superior corrosion and cavitation protection for cooling systems. Modern engines are becoming lighter, more efficient and operating at higher temperatures. High quality engineered coolants are critical to ensure the maximum protection of your engine.

Why can't I use tap water?

Water does not contain any corrosion inhibitors and will result in corrosion, liner cavitation and scale formation. Additionally, it does not possess the boil over and freeze protection provided by a glycol coolant. Water top-ups dilute the corrosion inhibitor package, lowering the cooling systems protection. Pre-mixed coolants should always be used to top up a system.

Can I mix Coolants?

If coolants are mixed, corrosion inhibitor stability and performance may be affected. Certain hybrid coolants are fully compatible with Organic and Conventional coolants. It is not recommended to mix coolants of unknown chemistries. In the event of an emergency, diluting the system with quality water may prove less costly than the use of a non-compatible coolant. If topping up over 20%, a full flush and coolant replacement is recommended. Some coolants cannot be mixed. Refer to the table below.

GUIDE TO MIXING COOLANTS		EXISTING COOLANT		
		HYBRID	O.A.T	CONVENTIONAL
MIX WITH	HYBRID	YES	YES	YES
	O.A.T	YES	YES	NO
	CONVENTIONAL	YES	NO	YES

Did you know?

Aged or poor quality radiator caps can prevent your cooling system from being adequately pressurised lowering the boiling point of your system. Always ensure that the radiator cap is in optimum condition or replace as necessary.



## Complete Filtration Solutions

Donaldson delivers a complete line of innovative filtration solutions, coupled with superior customer service and technical support. With unrivalled research and development, commitment to lean manufacturing and unmatched global reach, Donaldson is your best source for filtration.

From air, lube, fuel and hydraulic filters and accessories, through to dust, mist and fume collection, process filtration, gas turbine filtration and performance membranes; Donaldson's range of filtration products maximise performance and reduce maintenance for a broad range of vehicles and equipment.

Donaldson have an established global distribution network serving customers locally and globally.

Donaldson distribution centres are strategically located to quickly and accurately deliver filtration and exhaust products wherever replacement products are needed.



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