Donaldson Delivers

THERMO-TECH COOLANT

For Heavy Duty Applications

[Image of coolant containers]
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.

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
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.

<table>
<thead>
<tr>
<th>Premium Hybrid</th>
<th>Conventional</th>
<th>Organic</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PG</strong> Propylene Glycol</td>
<td><strong>EG</strong> Ethylene Glycol</td>
<td><strong>OAT</strong> Organic Acid Technology</td>
</tr>
<tr>
<td>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.</td>
<td>Thermo-Tech EG is a conventional coolant based on a proprietary formulation of corrosion inhibitors specially formulated to protect heavy-duty wet sleeve liners.</td>
<td>Thermo-Tech OAT is a water based, glycol free coolant based on a proprietary formulation of corrosion inhibitors.</td>
</tr>
<tr>
<td>• Extended Life</td>
<td>• Low Silicate</td>
<td>• Extended Life</td>
</tr>
<tr>
<td>• Superior Protection</td>
<td>• Superior corrosion protection</td>
<td>• Superior corrosion protection</td>
</tr>
<tr>
<td>• Lasts up to 6 years, 12,000 hours or 1,000,000 kilometers in heavy duty applications</td>
<td>• Lasts up to 2 years, 3,000 hours or 320,000 kilometers in heavy-duty applications</td>
<td>• Last up to 4 years, 12,000 hours or 1,000,000 kilometers in heavy-duty applications</td>
</tr>
</tbody>
</table>

* 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**

<table>
<thead>
<tr>
<th>Test Pack</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 Strip Test</td>
<td>P901874</td>
</tr>
<tr>
<td>50 Strip Test</td>
<td>P901899</td>
</tr>
</tbody>
</table>
**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 (SCA’s)
- 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

**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-52624
- 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 (SCA’s) 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

**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
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- MERCEDES BENZ
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

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
- GM 1825M, 1899M
- KENWORTH R026-170-97
- CATERPILLAR (other than EC-1)
- CUMMINS SB 3666132, CES 14603
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Frequently Asked Questions

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.

<table>
<thead>
<tr>
<th>GUIDE TO MIXING COOLANTS</th>
<th>EXISTING COOLANT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HYBRID</td>
</tr>
<tr>
<td>MIX WITH HYBRID</td>
<td>YES</td>
</tr>
<tr>
<td>MIX WITH O.A.T</td>
<td>YES</td>
</tr>
<tr>
<td>MIX WITH CONVENTIONAL</td>
<td>YES</td>
</tr>
</tbody>
</table>

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.