

Therma-Gard™



JOHN DEERE



Anti-Freeze/Summer Coolant

Therma-Gard is a fully formulated summer coolant and winter anti-freeze that delivers full protection from corrosion, cavitation, foaming, rust and scaling. Therma-Gard is designed to defend your machine against high-heat conditions.

Applications

- Developed specifically for John Deere engines
- Engineered for heavy-duty applications where automotive grade products do not always provide high enough levels of protection
- Suitable for many liquid cooled engines, petrol or diesel, such as those found in other farm machinery, cars and trucks.

Features/Benefits

- 6 year/6000 hour service life to reduce downtime and lower operating costs*
- High thermal and oxidative stability required by engines equipped with cooled exhaust gas recirculation (EGR)
- Provides excellent protection against corrosion and deposits, extends water pump life and prevents cylinder liner cavitation
- Ready to use premix formulation, for top up or refill and guarantees water quality and coolant performance.

Protect your Entire Fleet

It doesn't have to be a John Deere machine to get John Deere protection. Therma-Gard™ can protect any liquid-cooled engine.

Use Therma-Gard for:

- On highway vehicles
- Irrigation pumps
- Generators
- Compressors
- Any other liquid-cooled engine

Therma-Gard meets the requirements of:

- ASTM D2610 for diesel engines
- ASTM D3306 for petrol engines

Therma-Gard is engineered to meet the exact requirements of your machine. You can avoid most system failures by simply using the right coolant.

THERMA-GARD AUSTRALIA

Size	Form	Part Number	Qty
5 L	Pre-Mix	CP6175	3
10 L	Pre-Mix	CP6176	1
20 L	Pre-Mix	CP6177	1
250 L	Pre-Mix	CP6178	1
5 L	Concentrate	CP6179	3

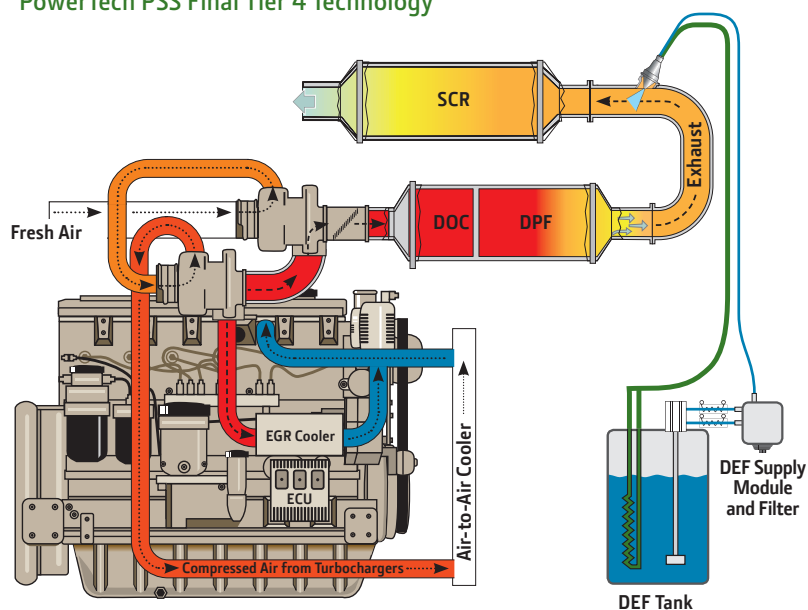
THERMA-GARD NEW ZEALAND

Size	Form	Part Number	Qty
5 L	Pre-Mix	CP6175NZ	3
10 L	Pre-Mix	CP6176NZ	1
20 L	Pre-Mix	CP6177NZ	1
250 L	Pre-Mix	CP6178NZ	1
5 L	Concentrate	CP6179NZ	3

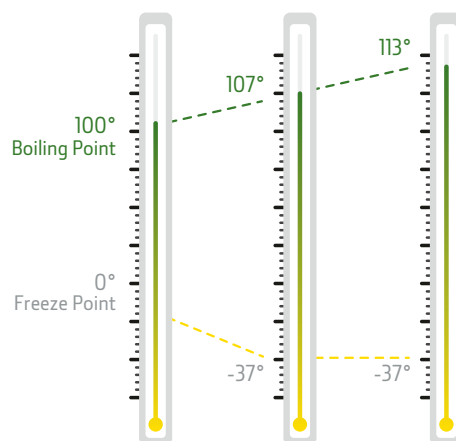
Engine Temperatures Rising

Engine radiator top tank temperatures are increasing, as part of the Tier 4 exhaust emission reduction strategy for off-road vehicles. This chart indicates the increases we are experiencing with Tier 4 engines. Temperatures rising from 107° C, now up to 113° C under a 15 psig pressure cap.

PowerTech PSS Final Tier 4 Technology



PowerTech PSS 4.5L engine configuration shown.



Proven Protection for your Cooling System

Therma-Gard™ engineers see the challenges engine cooling systems face every day in test cells and in field tests. Due to modern engines experiencing higher temperatures, and to make sure John Deere develop the best coolant to protect against these conditions, we've put Therma-Gard to very aggressive high-heat tests comparing how other coolants protect under the same conditions. The metals protected by Therma-Gard lost considerably less mass than those protected by other coolants. See for yourself!

THERMAL OXIDATIVE STABILITY COMPARISON

Metal Type	Therma-Gard	Comparative market coolant type		
		Heavy Duty Universal	Long Life	Passenger Car Automotive
Copper	28	269	205	240
Solder	5	24	32	26
Brass	17	68	123	151
Steel	6	86	29	173
Cast Iron	5	386	160	361
Aluminium	0	371	342	34

Test pieces from the JDQ 1522 Test



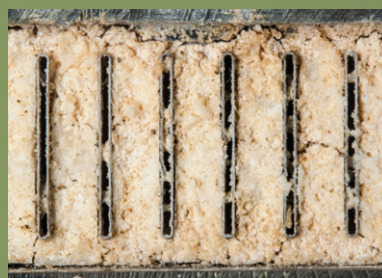
Nitrite Free

John Deere promotes the use of Nitrite free products.

Nitrite chemicals are found in many coolants, especially those designed for heavy duty applications. These Nitrites will react in a negative way to your John Deere cooling system. This can cause and promote the formation of Aluminium Hydroxide based deposits. Using a Nitrite compound in your John Deere engine can completely block a radiator in under 75 hours of operation.

Please refer to your machines operational manual and the instructions for using a Nitrite free coolant.

Therma-Gard™ safely protects wet sleeves from cavitation and pitting, without the use of Nitrite. As cylinder liner cavitation is devastating to any engine and a very costly repair, John Deere mandates using Nitrite free coolants in all John Deere Engines.



Therma-Gard extends the life of your water pump. Moving components in the cooling system, such as water pump impellers are also subject to cavitation problems. Incorrect coolant promotes erosion of the water pump impeller and the surrounding areas. You can prevent this type of problem by using Therma-Gard.



Therma-Gard



Incorrect Coolant



Plain Water



JOHN DEERE

*Rating applies when complete cooling system flush is performed prior to use.

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