

# Cool-Gard™ II

Coolant designed for the challenges your off-road equipment faces.



## Face tough conditions in the field

Looking for an easy way to prep your equipment for challenges like freezing temperatures, high heat, and long service intervals? Start putting John Deere Cool-Gard™ II coolant in your machine. It's a premium coolant designed to last, and helps your equipment last even longer.

## Protect your system and save money

Cool-Gard II protects for so long, you may trade your equipment before you change your coolant. That means you'll save on service and replacement costs. Cool-Gard II gives you:

- Up to 6-year/6000-hour service life\*
- Longer service intervals
- Protection against corrosion and deposits
- Cavitation control for a longer liner life and more efficient water pump performance
- Reliable freeze-point protection

## Designed specifically for your John Deere equipment

You can avoid most system failures by simply using the right coolant. Cool-Gard II is engineered with your equipment, for your equipment, so it meets the exact requirements of your machine. There's no guessing, no trial and error – it's designed to meet the conditions you face. Cool-Gard II has:

- High thermal and oxidative stability for engines with cooled exhaust gas recirculation (EGR)
- Ready-to-use, 50/50 premix formula for freeze protection down to -34° F (-37° C)
- Concentrate version for blending in extreme conditions
- Bitrex® to help discourage accidental ingestion

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



## Protect your entire fleet

It doesn't have to be a John Deere machine to get John Deere protection. Cool-Gard™ II can protect any liquid-cooled engine. Use Cool-Gard II for:

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

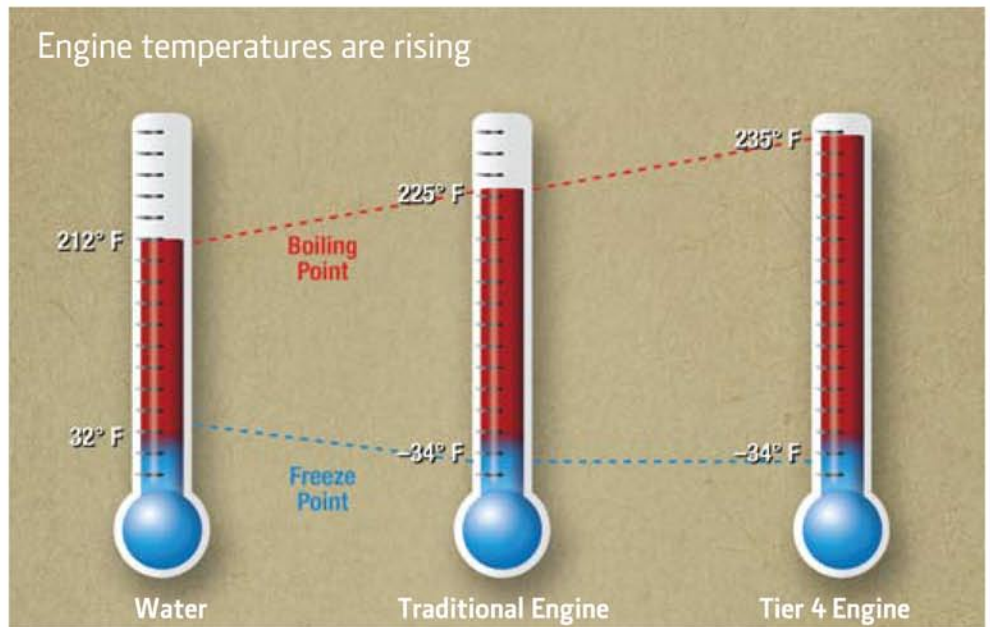
## Cool-Gard II protects longer in engines that run even hotter

What should changing engine technology mean for your business? Nothing. Cool-Gard II defends your machine against high-heat conditions as engines run hotter with changing regulations. The only difference you'll see is better, longer-lasting performance from your equipment.

## Proven protection for your cooling system

Cool-Gard II engineers see the challenges engine cooling systems face every day in test cells and in field tests. And to make sure John Deere develops the best coolant to protect against these conditions, we've put Cool-Gard II to very aggressive high-heat tests. We compared how Cool-Gard II protects common cooling system metals under extreme, high-heat conditions with how other coolants protect under the same conditions. The metals protected by Cool-Gard II lost less mass than those protected by other coolants.

See for yourself!



Engine radiator top tank temperatures are increasing as part of the Tier 4 exhaust emission reduction strategy for off-road vehicles. The above chart indicates the upcoming increase from 225° F to 235° F under a 15 psig pressure cap.

## THERMAL OXIDATIVE STABILITY COMPARISON

PRODUCT TEST RESULTS (weight changes in mg / metal; less weight change indicates less wear)

METAL TYPE	COOL-GARD II	Universal	Long Life	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
Aluminum	0	371	342	34

Tested using modified ASTM D2272 thermal oxidative stability test. Typically used to test steam turbine oils, test conditions were modified to test oxidation stability of ethylene glycol coolants.

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