



NOTHING RUNS LIKE A DEERE



COOL-GARD II

TECHNICAL DATA SHEET

Cool-Gard II is our ready-to-use 50/0 formulated coolant with a freeze protection down to -37°C.

Exclusive John Deere formulation!

Change interval up to 6.000hrs / 6 years*

APPLICATION

Cool-Gard II is a fully formulated summer coolant, winter antifreeze that delivers unsurpassed protection from corrosion, cavitation, foaming, rust, and scaling. Designed to withstand thermal oxidation and breakdown, Cool-Gard II can easily handle higher temperature applications.

Cool-Gard II is engineered with your equipment, for your equipment. It meets the exact requirements of your machine while protecting your cooling system for up to six years or 6,000 hours*.

It doesn't have to be a John Deere machine to get John Deere protection. Cool-Gard II can protect any on-highway vehicle engine up to:

- 482 803 km (300,000 miles) for heavy-duty engines.
- 241 402 km (150,000 miles) for passenger, light-duty, and medium-duty engines.

Cool-Gard II can also be used for:

- Irrigation pumps.
- Generators.
- Compressors.
- Any other liquid-cooled engine.

When the cooling level gets low and testing indicates that the freeze point and pH levels are correct, consider using Cool-Gard II pre-diluted 50/50 coolant for top-off. This will help maintain the proper chemistry and provide the protection you come to expect. Ensure the coolant is clear, bright, and particulate free prior to any refilling.





PERFORMANCE FEATURES & BENEFITS

- Six-year or 6,000-hour* service life in heavy-duty equipment.
- 482 803 km (300,000 miles) for on-highway vehicles with heavy-duty engines.
- 241 402 km (150,000 miles) for on-highway passenger vehicles with light- or medium-duty engines.
- Extended life coolant reducing downtime and lowering operating costs.
- High thermal and oxidative stability for engines equipped with cooled exhaust gas recirculation (EGR).
- Nitrite free to eliminate the formation of aluminum corrosion.
- 2-ethylhexanoic acid (2-EHA)-free additive package to protect plastics, elastomers, and seals
- Provides superior performance in all liquid-cooling system designs; diesel and automotive engines.
- Protects against corrosion and deposits in both summer and winter conditions.
- Provides cavitation control for longer cylinder liner life and more efficient water-pump performance.
- Contains a bittering agent to help discourage accidental ingestion.
- Compatible with Final Tier 4 (FT4) engines as well as older equipment.
- Exceeds all requirements of ASTM D3306 and D6210

PROVEN PROTECTION FOR YOUR COOLING SYSTEM!



The images show how deposits can form inside your radiator's cooling tubes, blocking flow and preventing optimal heat transfer. By using a quality nitrite-free coolant like Cool-Gard II, you eliminate this kind of deposits formation, allowing full heat-transfer capability and efficiency.





JDQ-1522 Thermal Oxidative Stability Test

Cool-Gard™ II differentiates itself from other coolants on the market by providing the highest level of protection for heavy duty, off-road applications. The JDQ-1522 test is a proprietary John Deere test designed to assess oxidation that occurs due to the extreme thermal conditions by testing metals typically found in a cooling system. The metals and coolant are combined and exposed to extreme heat under highly oxidative conditions. Through continual agitation over an accelerated period, this test accurately depicts the corrosion protection that various coolants provide in heavy-duty, non-road applications. It proves Cool-Gard II is the premium choice for heavy-duty, off-road conditions and is equally suited for any liquid-cooled internal combustion engine.

JDQ-1522 test conditions:

- 148 °C (300 °F) with continuous agitation
- Seven-day duration

Product Comparison Test Results:

Weight changes in mg/metal of in the different coolant types. Less weight change indicates less wear.



| TYPICAL PHYSICAL CHARACTERISTICS | |
|----------------------------------|-------------------------|
| CHARACTERISTICS | TYPICAL VALUE |
| pH-Value | 7.9 (50/50 in DI water) |
| Freeze Point | -37°C (ASTM D-1177) |
| Boiling Point | 108°C |
| Density @ 15°C | 1080 (DIN 51757) |
| Ash content mass % | 2.5 |
| Chloride, ppm | <13 |
| Reserve alkalinity | 7 |
| Effect on automotive finish | None |





These characteristics are typical of current production. Whilst future production will conform to manufacturer specification, variations in these characteristics may occur.

*) Exchange interval applies only if system has been filled and topped-off with Cool-Gard II only!

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