

Cat[®] NGEC[™]

Premix 50/50



Prevents Freezing While Providing Superior Component Protection

Cat[®] NGEC[™] (Natural Gas Engine Coolant) is a heavy-duty cooling system fluid designed to prevent freezing and boiling while providing superior component protection. Approved for use in all Cat natural gas and diesel engines, as well as, in most diesel, gas, or natural gas engines made by other manufacturers (follow OEM recommendations).

Benefits

Performance

Cat NGEC protects the cooling system of your natural gas engine over a temperature range of -34°F (-37°C) to 265°F (129°C). Additional freeze protection can be gained when the coolant concentration is raised to 60%.

Component Protection

Cat NGEC contains inhibitors that provide superior protection for metal components, especially aluminum, against pitting and corrosion. The formulation of Cat NGEC minimizes the formation of foam.

Ready-To-Use

Cat NGEC is premixed with deionized water and embitterment. No Supplemental Coolant Additive is needed until testing indicates.



CATERPILLAR[®]

Cat NGENC Provides Top Component Protection

Aluminum can be a very difficult metal to protect from corrosion and cavitation (boiling) damage. Cat NGENC is formulated to provide excellent protection for all metals used in cooling systems. In testing (ASTM D2809) with aluminum water pumps, Cat NGENC demonstrated its superior ability to protect compared to competitive heavy duty coolants.



Cat® NGENC™ protected this water pump and earned a nine out of ten on the test.



Results using a competitive heavy duty coolant that claimed to meet industry standards. The test score for this coolant was less than 4.

Typical Characteristics ¹	
ASTM Specification	ASTM D6210
Color	Magenta
Boiling protection – 15 psi (1 bar) radiator cap	
50% Cat NGENC/50% water	129°C (265°F)
60% Cat NGENC/40% water ²	132°C (270°F)
Freeze protection	
50% Cat NGENC/50% water	-37°C (-34°F)
60% Cat NGENC/40% water ²	-52°C (-62°F)
pH (50% solution)	10.5
Nitrite (50% solution)	1,200 ppm
Molybdate (50% solution)	310 ppm
Silicon (in the form of silicates) (50% solution)	120 ppm
Phosphate	0 ppm

¹The values shown are typical values and should not be used as quality control parameters to either accept or reject product. Specifications are subject to change without notice.

²Higher levels of glycol reduces the heat transfer performance of the coolant. For optimum performance, Caterpillar recommends a 50/50 percent mix of Cat NGENC and water, unless additional freeze protection is required.

Formulated to meet or exceed the following ASTM standards: D3306, D4985, D6210, TMC RP302, TMC RP329

Drain Interval

When used in Cat natural gas engines and properly maintained with Cat SCA, Cat NGENC has a drain interval of three years. Refer to the Operation and Maintenance Manual of your specific machine/engine for drain intervals based on service hours.

S•O•SSM Fluid Analysis Services for Early Problem Detection

Protect your investment with Cat S•O•S Coolant Analysis, the ultimate detection and diagnostic tool for your engines. Refer to the Caterpillar Operation and Maintenance Manual for the recommended intervals of S•O•S Level 1 Coolant Analysis (such as every 250 hours). Level 2 Coolant Analysis is recommended at least annually for all Cat engines and machines.

Testing Nitrite Levels

Field testing of coolant nitrite levels can be performed using the 4C-9301 test kit. Results are immediate and SCA additions can be made as needed.

Coolant Maintenance Resources

For in-depth information on coolant maintenance, refer to the Cooling System Specifications section of the latest version of SEBU6400 – Caterpillar Gas Engine Lubricant, Fuel, and Coolant Recommendations.

Health and Safety

For information on proper use for health, safety, and environment, please refer to the Material Safety Data Sheet (MSDS). Read and understand the MSDS before using this product. Always observe good hygiene measures. For a copy of the MSDS, contact us or visit the web at www.catmsds.com.

CAT® DEALERS DEFINE WORLD-CLASS PRODUCT SUPPORT.

We offer you the right parts and service solutions, when and where you need them.

The Cat Dealer network of highly trained experts keeps your entire fleet up and running to maximize your equipment investment.

