

# COOLANT GREEN G11

## -40C and -50C

### **PRODUCT DESCRIPTION**

TOTACHI® NIRO® COOLANT GREEN G11 is designed for use in cooling systems of passenger cars and tractors for construction / agricultural use.

The basic components of coolant are ethylene glycol and demineralized water, which provide excellent heat exchanging properties, high boiling temperature and low freezing temperature. The balanced additive package of carboxylate corrosion inhibitors with an additional input of silicates provides effective protection of metals against corrosion. Additionally, the product is neutral to rubber parts and prevents foaming. It is manufactured under STO 15258135-005-2015 (in accordance with the requirements of ASTM D3306 and ASTM D4985 standards).

The recommended service life is up to 150,000 km for passenger cars or three years (whatever comes first). For off road equipment the recommended service life is up to 300,000 km or 6,000 hours.

### **APPLICATION**

**TOTACHI® NIRO® COOLANT GREEN G11 -40C** is ready for use product for cooling systems of mobile equipment with freezing temperature of -40°C. It has a 50/50 water glycol concentration for use in mild or warm climate regions. The product is suitable for many types of cars, medium construction and agricultural equipment, which require hybrid coolants based on carboxylate technology additives with a limited level silicate as additional inhibitors.

**TOTACHI® NIRO® COOLANT GREEN G11 -50C** is ready for use product for cooling systems of passenger cars and commercial vehicles, as well as tractor applications with freezing protection temperature of -50°C. It has a 60/40 water glycol concentration for use in northern regions with very cold climate, if freezing does not harm cooling system.

### **CUSTOMER BENEFITS**

- TOTACHI® NIRO® COOLANT GREEN G11 provides effective protection against corrosion of engine parts made of iron (cast iron), aluminum, solders and copper alloys.

- TOTACHI® NIRO® COOLANT GREEN G11 has optimal heat exchanging properties, which increase durability of engines in high load modes.
- TOTACHI® NIRO® COOLANT GREEN G11 maintains effective performance for long time of up to 3 years for passenger cars; and up to 2 years for trucks and off-road vehicles.
- TOTACHI® NIRO® COOLANT GREEN G11 has excellent compatibility with sealing materials and rubber hoses, used in cooling systems of most cars.

### **MEETS SPECIFICATIONS AND REQUIREMENTS OF:**

- ASTM D3306 - for vehicle maintenance shops;
- ASTM D4985 \* - for trucks and off-road applications.

- SAAB 6901 599
- MTU MTL 5048
- AUDI
- PORSCHE
- SEAT
- VOLVO
- MAN
- SKODA
- HYUNDAI
- KIA
- SCANIA
- KAMAZ
- LADA
- DAIMLER-CHRYSLER MS-7170
- DAIMLER-CHRYSLER DBL 7700.20
- DAEWOO GM B 040 0240/QL 130100
- JI CASE JIC-501 KHD H-LV 0161 0188
- MERCEDES-BENZ 325.0/325.2
- VOLKSWAGEN TL -774C
- STEYR 324 TYPE NF
- IVECO STANDARD 18-1830
- LANCIA NC 956-16
- LANCIA FIAT 9.55523
- AVTOVAZ TTM VAZ 1.97.717-97
- OPEL - GM GME L 1301
- RENAULT SAMSUNG
- BMW N 600 69.0
- IVECO 55523/1
- CUMMINS 85T8-2
- DAF DW03245403
- FORD ESD-M97B49-A

- DEUTZ DQC CA-14
- ALFA ROMEO
- SSANGYONG
- SATURN
- JCB
- CLAAS
- LIEBHERR
- DOOSAN

Before using this product make sure, it is consistent with OEM's recommendations for the equipment operating conditions and customer's maintenance practices.

\* Requires the introduction of additional additives (SCA) and regular checks of SCA level for effective protection in high output engines in a block design with "wet" cylinder liner.

**TYPICAL TEST DATA**

CHARACTERISTICS	UNITS	-40°C	-50°C	METHOD
Appearance		Transparent liquid with no residue	Transparent liquid with no residue	Sec 5.2 TU
Density at 20°C	g/cm <sup>3</sup>	1.078	1.082	GOST 18995.1, Sec.1
Swelling of rubber	%	1.9	2.0	GOST 9.030-7 p.1
Boiling point	°C	107	109	ASTM D1120
Chill point	°C	-40	-50	GOST 28084 Sec 4.4
Foaming: – Volume of foam after 5 minutes; – Foam stability	cm <sup>3</sup> sec	5 1	5 1	GOST 28084 Sec 4.6
Hydrogen ion exponent at 20°C	pH	8.1	8.2	GOST 22567.5
Color		Green	Green	Visual

**STORAGE AND HANDLING GUIDELINES**

- Avoid exposing products to direct sunlight.
- Cans, packed in cardboard boxes, must be stored in dry places. Avoid exposing products to moisture.
- It is highly recommended to store drums indoors on pallets and racks.
- If stored outdoors drums should be placed sidewise to avoid accumulation of moisture.

**ATTENTION:**

**TOTACHI® NIRO® COOLANT GREEN -40C and -50C are poisonous and extremely dangerous if ingested. In case of swallowing coolant based on aqueous solution of glycol it affects central nervous system, causing dizziness, fainting and vomit.**

When changing coolant dispose off used product in accordance with local, regional or federal legislative provisions.

**HEALTH, SAFETY AND ENVIRONMENT PROTECTION**

Information on health, safety and environment protection is described in the product Safety Data Sheet (SDS). The SDS file contains details on potential hazards, precautions and first aid measures, as well as information on environmental impact and disposal of used products.

TOTACHI INDUSTRIAL CO. LTD. disclaims any liability in case the product is used with violation of these instructions and warnings or it is not used for its intended purpose. Before using product other than intended, consult your local TOTACHI® distributor.