

# SUPER LONG LIFE COOLANT

## Green -25C, -40C and -50 C

### PRODUCT DESCRIPTION

TOTACHI Super Long Life Coolant Green is an antifreeze / coolant, based on ethylene glycol. The product is engineered for automotive cooling systems in accordance with the requirements of Japanese standard JIS K 2234. It is also suitable for cooling systems of other passenger cars and commercial vehicles of various OEMs. The product contains an effective package of additives and inhibitors for long protection of cooling systems of internal combustion engines, including those with application of aluminum alloys. The product forms a long-term protective film on internal surface of cooling system, thus protecting engine from freezing, overheat, cavitation, corrosion and contamination. The formulation, which is free from silicates, nitrates, borates and amines, provides decrease of hard deposits and extends service life of water pumps.

### APPLICATION

- TOTACHI Super Long Life Coolant Green is a ready to use coolant with freeze point of -40°C (premixed 50/50 coolant) and -50°C (premixed 60/40 coolant).
- Recommended for cooling systems of gasoline and diesel engines of most Japanese manufacturers: Nissan, Mitsubishi, Honda, Mazda, Suzuki, Subaru, Isuzu. Supports an extended service life of 5 years / up to 250,000 km during initial filling (car manufacturers from Japan recommend 3 years / up to 150,000 km for post-warranty service).
- TOTACHI Super Long Life Coolant Green is specially recommended for modern engines where the enhanced protection of aluminum against high-temperature corrosion is required.
- The product can be safely mixed with genuine coolants OEM - manufacturers.

### CUSTOMER BENEFITS

- TOTACHI Super Long Life Coolant Green offers effective

corrosion protection of engine parts made of iron (cast iron), aluminum, solders and copper alloys.

- TOTACHI Super Long Life Coolant Green provides improved heat exchanging characteristics, which enhance performance of engines in highly loaded operating conditions.
- The product is fully compatible with original Japanese coolants. It possesses excellent compatibility with seal materials and rubber hoses, typically used by Japanese OEMs.



### MEETS SPECIFICATIONS AND REQUIREMENTS OF:

- ASTM D3306 for maintenance shops;
- JIS K 2234
- JASO M325
- HYUNDAI/KIA MS 591-08
- SSANG YONG SES-N-761
- MAZDA MES MN 121K
- MITSUBISHI MOTORS ES-X64217
- RENAULT-SAMSUNG MOTORS 41-01-001--T

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

TOTACHI Super Long Life Coolant Green is supplied ready for use. It is not recommended to dilute the product with water for more than 10%. It is a good practice to flush cooling system before changing coolant.

For application in regions with mild climate use product with chill point of -40°C (premixed 50/50 coolant). For northern regions with severe cold climate use product with chill point of -50°C (premixed 60/40 coolant).

**TYPICAL TEST DATA**

CHARACTERISTICS	UNITS	-40°C	-50°C	-25°C	METHOD
Appearance		Transparent liquid with no residue	Transparent liquid with no residue	Transparent liquid with no residue	P 5.2 ToR
Density at 20°C	g/cm <sup>3</sup>	1.077	1.084	1.06	GOST 18995.1, section1
Swelling of rubber	%	2.7	2.9	5	GOST 9.030-7 p.1
Boiling point	°C	110	111	100	ASTM D1120
Chill point	°C	-40	-50	-25	GOST 28084 p 4.4
Foaming: – Volume of foam after 5 minutes; – Foam stability	cm <sup>3</sup> sec	5 1	5 1	30 3	GOST 28084 p 4.6
Hydrogen ion exponent at 20°C	pH	7.7	8.1	8.5	GOST 22567.5
Color		Green	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.

**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.

**ATTENTION:**

TOTACHI Super Long Life Coolant (Green) **is poisonous and extremely hazardous if ingested.**

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

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.