

EXTENDED LIFE COOLANT

-25C, -40C and -50C

PRODUCT DESCRIPTION

TOTACHI EXTENDED LIFE COOLANT -40C and -50C is coolant based on aqueous solution of ethylene glycol. The product is specially engineered for the latest generation cooling systems of highly loaded gasoline and diesel engines. It is manufactured using modern OAT-technology (Organic Acid Technology) and contains organic acids (carbon) corrosion inhibitors. The product additionally contains molybdates and nitrites, which help to prevent cavitation and provide improved protection of cooling system parts. TOTACHI EXTENDED LIFE COOLANT -40C and -50C has neutral effect on modern sealing materials and rubber hoses. The formulation promotes increase in service life of water pumps and improve heat exchange from metal surface to coolant.

APPLICATION

- The product is recommended for cooling systems of highly loaded gasoline and diesel engines, which require the use of OAT Technology-based coolants. The product supports extended service life up to 5 years / 250,000 km for passenger cars / 600, 000 km for on-road applications / 12 000 hours for off-road applications.
- TOTACHI EXTENDED LIFE COOLANT -40C and -50C is specially recommended for modern engines, where improved protection of aluminum against high temperature corrosion is required.
- The product does not contain silicates, phosphates and nitrates; thus, it meets performance requirements of many European and American OEMs.

CUSTOMER BENEFITS

- The product provides effective protection of engine parts made of aluminum, iron (cast iron), solder and copper alloys against corrosion.
- TOTACHI EXTENDED LIFE COOLANT -40C and -50C provides more effective heat exchange up to 15%, which improves reliability of engine performance in high loaded operating conditions.
- TOTACHI EXTENDED LIFE COOLANT can be safely mixed with other carboxylate-based coolants, it has excellent compatibility with modern sealing materials and rubber hoses.

MEETS SPECIFICATIONS AND REQUIREMENTS OF:

- ASTM D3306 for maintenance shops;
- ASTM D6210-10 for Heavy Duty engines;
- SAE J 1034

- Case / New Holland MAT3624
- Cummins CES 14603 / 14439
- DEUTZ DQCCB-14
- DHI KS M2142
- GM/Opel GMW 3420
- MITSUBISHI FUSO 325.3
- John Deer JDM H5
- Jenbacher TA 1000-0201
- KOMATSU AF-NAC / 07.892 - 2009
- MAN 324 Type SNF
- Renault Type-D/41-01-001
- Mitsubishi MHI
- Mercedes-Benz DBL 7700/ MB 325.3
- Ford WSS-M97B44-D2
- MWM 2091/11
- JSC KAMAZ
- Opel-GM 6277M
- Skoda 61-0-0257
- VOLVO 128 6083/002
- ROSTSELMASH
- AVTODIESEL
- KAMAZ
- ISUZU
- CLAAS
- SCANIA
- JCB
- HINO
- IVECO
- KUBOTA
- LIEBHERR
- UD TRUCKS
- WRITGEN
- YANMAR
- DAF 74002
- DOOSAN
- HITACHI
- GAZ
- HOWO
- MANITOU
- SDLG
- TEREX



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

In cooling systems of highly loaded diesel engines it is necessary to use SCA additives, recommended by vehicle OEM.

TOTACHI EXTENDED LIFE COOLANT is supplied ready for use. The product does not require additional diluting with water.

EXTENDED LIFE COOLANT -25C, -40C and -50C

For application in regions with mild climate use product with chill point of -40°C. For northern regions with severe cold

climate use product with chill point of -50°C.

TYPICAL TEST DATA

CHARACTERISTICS	UNITS	-25 °C	-40°C	-50°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 ³	1.06	1.076	1.084	GOST 18995.1, section1
Swelling of rubber	%	5	2.1	2.1	GOST 9.030-7 p.1
Boiling point	°C	100	111	112	ASTM D1120
Chill point	°C	-25	-40	-50	GOST 28084 p 4.4
Foaming: <ul style="list-style-type: none">Volume of foam after 5 minutes;Foam stability	cm ³	30 3	5 1	5 1	GOST 28084 p 4.6
Hydrogen ion exponent at 20°C	pH	8.5	8.5	8.7	GOST 22567.5
Color		Yellow	Yellow	Yellow	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.
- Shelf life is up to 8 years.

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 EXTENDED LIFE COOLANT *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.