

SUPER LONG LIFE COOLANT

Red -25C, -40C and -50C

PRODUCT DESCRIPTION

TOTACHI Super Long Life Coolant (Red) is an antifreeze / coolant, based on ethylene glycol. The product is specially engineered for cooling systems of vehicles, manufactured by TOYOTA group 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 maximum protection of cooling systems of majority of engines, including those with application of aluminum alloys. The product forms a long-term protective film on internal surface of cooling system, protecting engine from freezing, overheat, cavitation, corrosion and contamination. The formulation, which is free from silicates, nitrates, amines and borates, provides decrease of hard deposits and extends service life of water pumps.

APPLICATION

- TOTACHI Super Long Life Coolant Red is a ready to use coolant with freeze point of -40°C (premixed 50/50 coolant) and -50°C (premixed 60/40 coolant).
- TOTACHI Super Long Life Coolant Red is designed for application in cooling systems of gasoline and diesel engines of leading Japanese car manufacturers: TOYOTA, Lexus, Scion and Daihatsu. Supports an extended service life of up to 5 years / up to 250,000 km during the initial filling (according to the TOYOTA recommendation with post-warranty service 3 years / up to 150,000 km).
- TOTACHI Super Long Life Coolant Red is specially recommended for modern engines, which require enhanced protection of aluminum alloys against high-temperature corrosion.
- The product can be safely mixed with original TOYOTA coolants.

CUSTOMER BENEFITS

- TOTACHI Super Long Life Coolant Red offers effective corrosion protection of engine parts made of iron (cast iron), aluminum, various solders and copper alloys.
- TOTACHI Super Long Life Coolant Red provides improved heat exchanging characteristics which enhance performance of engines in highly loaded operating conditions.
- The product is fully compatible 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
- TOYOTA TSK 26016

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 Red 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	-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	1,077	1,084	GOST 18995.1, section1
Swelling of rubber	%	5	2.7	2.8	GOST 9.030-7 p.1
Boiling point	°C	100	114	115	ASTM D1120
Chill point	°C	-25	-40	-50	GOST 28084 p 4.4
Foaming:					GOST 28084 p 4.6
– Volume of foam after 5 minutes;	cm ³	30	5	5	
– Foam stability	sec	3	1	1	
Hydrogen ion exponent at 20°C	pH	8.5	7.9	8.4	GOST 22567.5
Color		Red	Red	Red	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 Red *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.