KIREI CHEMICAL

TECHNICAL DATA SHEET

KATANASHIMO G11

Ready-to-useantifreeze

DESCRIPTION

KATANA ShimoG11–ready-to-use extra high performanceantifreeze based on monoethylene glycol (MEG) and high-performance anti-corrosion additive package that does not contain nitrites, amines and phosphates. Itwas developed to protect light car, truck, bus, road building and agriculture machine engines of both ferrous and aluminium construction against corrosion and frost damage.

Antifreeze is produced on hybrid technology, contains OAT (Organic Acid Technology) carboxylate additives which provide protection against corrosion of metal parts in cooling systems of internal combustion engines, including those made of an aluminum alloy and cast iron. Antifreeze prevents freezing at low temperatures (up to -40^{0}C) and ensures protection against engine overheating in the summer. Fully complies with VW TL-774C (G11) specification, green colored.

TECHNICAL ADVANTAGES

15%	50%	10%
Higher boiling point	Lower corrosion	Lower pour point
KATANA Shimo G11does not containsmethanol and other cost saving components in the compositionof antifreeze. This ensure high boiling point for guaranteed protection under the most severe operating conditions.	KATANA Shimo G11 contains high performance anti-corrosion additives for ferrous and non-ferrous metals, cast iron and aluminum. Corrosion protection of the antifreeze is on 30-50% longer than competitors have.	KATANA Shimo G11 does not contain glycerol and other highly viscous components. This provide improved low temperature fluidity and low pour point, ensuring greater protection of engine from extreme low temperatures.

SPECIFICATIONS

KATANA ShimoG11fully satisfies and is recommended to replace following types of antifreezes: VW/Audi/Seat/Skoda TL-774C (G11), ASTM D3306/D4340, BS 6580, BMW N 600 69.0, Cummins 85T8-2, MB 325.0/325.2, Iveco 55523/1, Mazda, Ford ESD-M97B49A, Nissan, Opel/GM B 040 0 240, QL 130100, Mitsubishi, Toyota, MAN 324 NF, MTU MTL 5048, Volvo 128 6083, Rover/Land Rover, KIA, Chevrolet.

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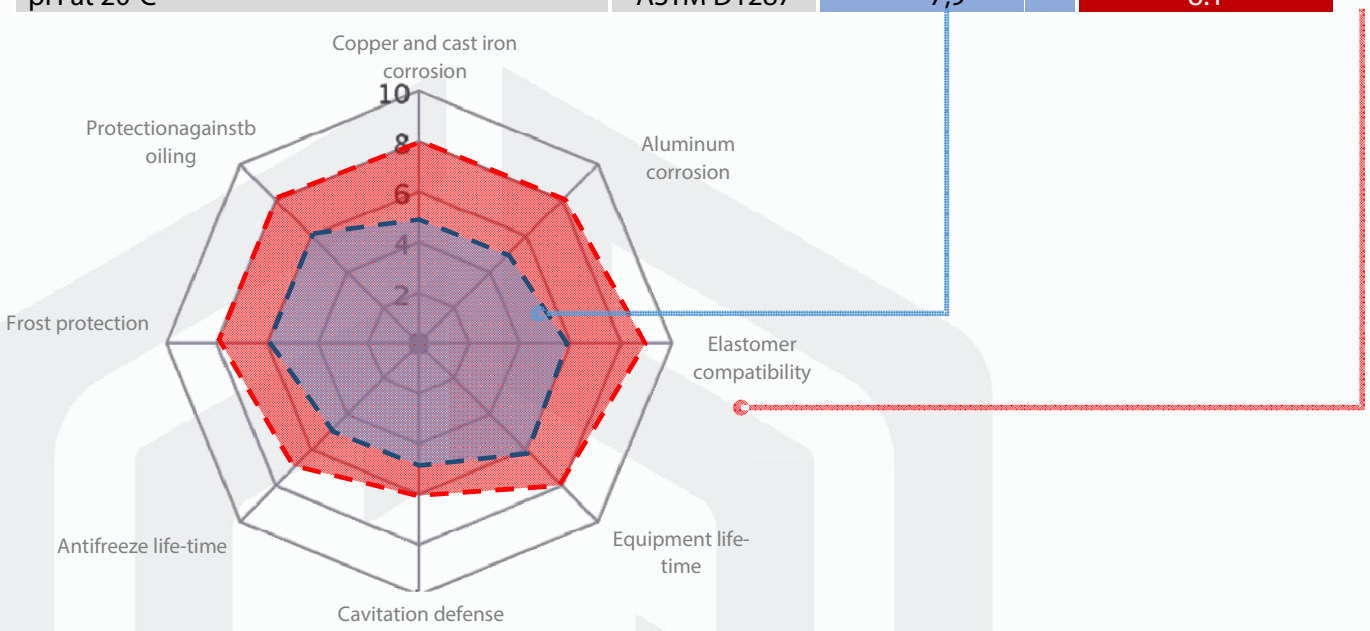
TECHNICAL PARAMETERS

Parameter	Test method	TypicalG11 antifreeze	KATANA Shimo G11
Color	Visually	Green	Green
Density at 20˚C, g/ml	ASTM D1122	1.070	1.080
Freezing Point, ^{O}C	ASTM D1177	-35	-40
Frost Protection, ˚C	-	-37	-43
Pour Point, ˚C	DIN 51583	-40	-45
Температура начала перегонки, ^{0}C	-	83	102
Boiling Point at 1 atm pressure, ^{0}C	ASTM D1120	99	110
Boiling Point at 2atm pressure, ^{0}C	-	110	130
Corrosion, mg/plate • Copper • Cast Iron • Solder • Aluminium	ASTM D1384	 10 10 30 30	 1 0.5 2.5 1.2
pH at 20˚C	ASTM D1287	7,9	8.1



Physical and chemical characteristics are typical for this product. These parameters are subject to change without notification, however, full compliance with the product specifications is guaranteed.

Shelf life: 5 years from date of manufacture. Store unopened in a cool, dry, well-ventilated and away from children. Avoid direct sunlight, heat sources and strong oxidizing agents. Material Safety Data Sheet (MSDS) for professional users available on request.

Developed in Osaka, Japan. The quality management system in the production of oils KATANA corresponds to the requirements of ISO 9001. The system of environmental safety in the production of oils KATANA corresponds to the requirements of ISO 14001.

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