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BOLITCH Long-Life Antifreeze Coolant | OAT | -45 °C | Boil-over ≥109 °C

Models: BLC-CL-016-12B / -017-12B / -018-12B (2 kg x 12 per carton) | BLC-CL-019-1D (9 kg x 1 jerrican per carton)

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1. Product description

Ethylene glycol long-life antifreeze coolant (OAT organic acid technology, oil-based formula). Amine-free, borate-free, silicate-free and phosphate-free.

Colour: Blue / Red / Green (custom colours available).

2. Typical properties

Product Type	Ethylene glycol long-life antifreeze coolant (OAT, oil-based formula)
Inhibitor Technology	OAT - amine-free, borate-free, silicate-free and phosphate-free
Colour	Blue / Red / Green (custom colours available)
Freezing Point, °C	-45 (-5 / -15 / -25 / -35 / -45 available on request)
Boiling Point, °C	≥109
pH Value	8.6 (7.5-10.5)
Reserve Alkalinity, mL	≥10
Density @20 °C, g/cm³	1.070-1.085
Chloride, mg/kg	≤25
Ash Content, %	≤2.0
Foaming (ASTM D1881)	Foam volume ≤150 mL, break time ≤5 s
Glassware Corrosion (ASTM D1384)	Copper / brass / steel / cast iron ≤10 mg per coupon, solder ≤30, cast aluminium ≤30 (336 h)
Cast Alu Heat-Rejecting Corrosion (ASTM D4340)	≤1.0 mg/cm ²
Effect on Rubber & Plastics	No swelling, shrinkage or hardening; compatible with common sealing materials
Recommended Service Life	5 years or 300,000 km (follow the vehicle manufacturer's manual)

Values are typical for the formulation and are not guaranteed specification limits. Bracketed references indicate the test method the value is expressed by. A Safety Data Sheet (SDS / MSDS) is supplied per formulation.

3. Packaging, weight and logistics

Packing	N.W / unit	N.W / carton	G.W / carton	Models
2 kg bottle x 12 / carton	2 kg	24 kg	25 kg	BLC-CL-016-12B, -017-12B, -018-12B
9 kg jerrican x 1 / carton	9 kg	9 kg	10 kg	BLC-CL-019-1D
HS code	3820.00			
Shelf life / storage	3 years (unopened, stored in a cool, dry place away from direct sunlight)			

4. Recommended applications

Formulated for the cooling systems of most passenger cars, 4x4 / SUV and light commercial vehicles, and also suitable for water-cooled circulating systems in construction machinery, generator sets and marine engines.

The -45 °C grade delivers dependable freeze protection in severe-winter regions, long-haul winter transport and cold-store / cold-chain fleets, while retaining a ≥109 °C boiling point for boil-over protection.

Freeze points of -5 / -15 / -25 / -35 / -45 °C can be tailored to your market's climate. Do not mix long-term with conventional IAT (inorganic) coolants.

5. Use, handling and safety

Ready to use, do not dilute. The -45 °C freeze point suits severe-winter regions and long-haul winter transport. Drain and flush the cooling system before filling.

Handling, personal protection, first aid and transport classification are given in the Safety Data Sheet (SDS / MSDS) supplied per formulation.

6. Documents supplied

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Safety Data Sheet (SDS / MSDS) - supplied per formulation, available on request. | This Technical Data Sheet. | Other export documents supplied per shipment as required for customs clearance.

7. Standards and test methods referenced

Standards referenced in formulation and testing:

- GB 29743.1-2022 - Motor vehicle engine coolant
- ASTM D3306 - Standard Specification for Glycol Base Engine Coolant
- JIS K2234 - Engine antifreeze coolant

Test methods referenced:

- ASTM D1384 - glassware corrosion test (336 h)
- ASTM D4340 - cast aluminium heat-rejecting corrosion test
- ASTM D1881 - foaming tendency test

The standards and test methods below are quoted as the technical references used when formulating and testing this product. This list is not a certification, approval, licence or mark of conformity. No third-party certification, OEM approval or product licence is claimed or held. Where the market requires conformity assessment (for example PVoC, TBS or O'zDSt), the application is normally filed by the importer or an authorised local representative; we support it with samples, technical documentation and translations.

8. Performance highlights

- Ethylene glycol base with OAT inhibitors - long-life protection up to 5 years / 300,000 km
- -45 °C freeze protection plus 109 °C boil-over protection - all-weather, year-round confidence
- Outstanding corrosion protection for all six metals: copper, brass, solder, steel, cast iron and cast aluminium
- Low-silicate, low-chloride formula - compatible with aluminium blocks, radiators and rubber hoses
- Fully miscible with other OAT coolants of the same type - safe for top-up
- Amine-free, borate-free and phosphate-free - low toxicity, kind to water-pump seals