BOLITCH
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BOLITCH Long-Life Engine Coolant | OAT (Organic Acid Technology) | 101 °C

Models: 2 kg bottle x 12 per carton | Ready to use, no dilution
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1. Product description

Ready-to-use long-life engine coolant (OAT - Organic Acid Technology, water-based series).

Inhibitor system: OAT organic acid (carboxylate) technology - inhibitors are consumed only where corrosion begins, forming a protective layer at the corrosion site, giving long-life protection with a very low depletion rate. amine-free, silicate-free and phosphate-free.

Engineered for hot climates and frost-free regions: boil-over protection, corrosion inhibition and scale control matter most where ambient temperatures stay high year-round and cooling systems work under sustained load - from heavy urban traffic to high-altitude service.

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

2. Typical properties

Product Type	Water-based ready-to-use long-life engine coolant (OAT - Organic Acid Technology)
Inhibitor Technology	OAT (Organic Acid Technology) carboxylate inhibitor system - long-life, low depletion; amine-free, silicate-free and phosphate-free
Colour	Blue / Red / Green / Pink (custom colours available)
Freezing Point, °C	0 (no freeze protection - intended for frost-free regions above 0 °C)
Boiling Point, °C	101 (atmospheric pressure)
pH Value	8.6 (7.5-10.5)
Reserve Alkalinity, mL	≥10
Density @20 °C, g/cm³	1.00-1.05
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/cm²
Effect on Rubber & Plastics	No swelling, shrinkage or hardening; compatible with common sealing materials
Recommended Service Life	5 years or 300,000 km, whichever comes first; 3 years recommended under severe conditions (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	Export carton 340 × 318 × 215 mm
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 passenger cars, SUVs, taxis and light commercial vehicles, and also suitable for water-cooled circulating systems in generator sets and construction machinery.

Built on OAT organic acid (carboxylate) inhibitor technology, it delivers a 101 °C atmospheric boiling point for boil-over protection, long-life corrosion inhibition and scale control - matched to hot coastal climates and high-altitude service where cooling systems work under sustained load.

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5. Use, handling and safety

Ready to use, do not dilute. Boiling point 101 °C (atmospheric); freezing point 0 °C - the grade offers no freeze protection and is intended for frost-free regions, used year-round with no seasonal change-over. Drain and flush the cooling system before filling. Check the level periodically and top up with the same grade.

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

6. Documents supplied

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 - Motor vehicle engine coolant
- Organic acid (carboxylate) inhibitor technology - long-life corrosion protection with low depletion

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

- OAT (Organic Acid Technology) formula - long-life protection up to 5 years / 300,000 km (3 years under severe conditions)
- 101 °C atmospheric boiling point; with the system pressure cap it further suppresses boil-over - engineered for hot coastal climates, heavy traffic and sustained-load highland driving
- OAT carboxylate inhibitors protect all six metals - copper, brass, solder, steel, cast iron and cast aluminium - with low deposit and low depletion
- Excellent scale and deposit control - keeps water jackets, radiators and water pumps clean
- Strong pH-buffering keeps a stable alkaline reserve over time, suppressing acidification and bacterial growth
- Export pack 2 kg x 12 per carton from the same proven formula