

## MTU Coolant CS100 (Part Number X00057233)



### 1. Product Positioning & Applications

MTU Coolant CS100 is a high-performance coolant specifically engineered for MTU engines. It is suitable for industrial engines, generator sets, marine power systems, etc. It prevents engine overheating in cooling systems while offering multiple protections against corrosion, scaling, and freezing. Part number X00057233 is its official standard identification code, ensuring product compatibility and authenticity traceability.

### 2. Core Performance Features

- **Efficient Cooling Capacity:** Utilizes a high thermal conductivity formula to effectively reduce engine operating temperatures, maintain optimal working conditions, and enhance power system stability.
- **Corrosion Protection:** Contains compound corrosion inhibitors to safeguard metal components such as engine blocks, radiators, and pipelines from electrochemical corrosion and cavitation (especially for copper, aluminum, and other alloy materials).
- **Freezing & Boiling Resistance:**



- Prevents coolant freezing in low-temperature environments, avoiding damage to the cooling system from ice expansion (freezing point adjustable via dilution ratio, typically around -35°C at 50% dilution);
- Raises the boiling point in high-temperature environments (boiling point can reach 108°C+) to prevent engine overheating caused by coolant boiling.
- Long Service Life & Low Maintenance: Stable formula resists degradation, reduces replacement frequency, and lowers maintenance costs; inhibits scale and sediment formation to keep the cooling system clean.

### 3. Technical Parameters & Specifications

Parameter Type	Specific Indicators
<b>Base Fluid Composition</b>	Ethylene glycol-based (EG) or propylene glycol-based (PG, eco-friendly option), with a proprietary additive package.
<b>pH Value</b>	Weakly alkaline (typically 8.5–10.5) to maintain metal surface passivation films and enhance anti-corrosion effects.
<b>Freezing Point (50% Dilution)</b>	Approximately -35°C (adjustable based on regional climate, minimum can reach - 50°C).
<b>Boiling Point (50% Dilution)</b>	Approximately 108°C (at standard atmospheric pressure; higher in pressurized cooling systems).
<b>Shelf Life</b>	Typically 2–3 years unopened; refer to MTU's official guidelines for specifics.

### 4. Application Scenarios & Compatibility

- Suitable Engines: MTU engine series (e.g., MTU 4000, MTU 1600, MTU 396), especially recommended for heavy-duty equipment with high coolant performance requirements (e.g., generator sets, construction machinery, marine main engines).
- Compatibility:
  - Compatible with engine materials such as aluminum alloy, cast iron, and copper to avoid electrochemical corrosion;



- Can be mixed with other ethylene glycol-based coolants complying with ASTM D3306 or ISO 11136 standards, but original MTU products are preferred to ensure performance.

## 5. Usage & Maintenance Recommendations

- Dilution Ratio: Adjust based on ambient temperature; standard recommendation is 50% coolant + 50% deionized water (avoid tap water to prevent calcium/magnesium scaling).
- Replacement Interval: Under normal operating conditions, replace every 2–3 years or 4,000–6,000 hours; shorten intervals for severe conditions (e.g., high temperature, heavy load).
- Inspection Requirements: Regularly check coolant concentration (using a refractometer), pH value, and corrosion inhibitor content to ensure performance compliance.

## 6. Original Quality & Certifications

As an original MTU component (part number X00057233), Coolant CS100 undergoes rigorous laboratory testing and real-world validation by MTU, complying with the following standards:

- DIN 51521 (German industrial coolant standard);
- ASTM D4985 (U.S. antifreeze standard);
- Specifically formulated for MTU engines' unique anti-corrosion and cooling requirements. Non-original alternatives may affect engine lifespan.

## 7. Procurement & Support

For detailed technical specifications, pricing, or availability, contact an authorized MTU distributor via official channels or inquire directly with part number X00057233 to ensure genuine products and after-sales support.

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Tripoly International Group Limited

<https://www.diesel-cn.com/cs100-x00057233-mtucoolant>