

Technical Data Sheet (TDS)

Product Name: Low Hardness and High Corrosion

Product Code: CSI-0792

Revision Date: 2025-03-15

1. Product Description

This product is mainly composed of special surfactant, highly efficient dispersant, and corrosion inhibitors. It is designed for cooling systems using low-hardness water as the cooling medium. As a blended corrosion and scale inhibitor, it primarily inhibits corrosion by suppressing metal polarization. This product is free of nitrites, chromate, and other toxic substances, making it environmentally friendly. It delivers excellent corrosion inhibition even in corrosive waters with chloride concentrations above 300 mg/L and elevated levels of calcium and magnesium ions, while also providing outstanding scale inhibition performance.

2. Application

Cooling Water Systems with Low Hardness and High Corrosiveness

3. Product Features

- Excellent corrosion inhibition for carbon steel and copper in low hardness water
- Effective scale prevention in high chloride and high hardness conditions
- Non-toxic, nitrite-free, and chromate-free formulation
- Strong chelation and dispersion performance for multiple scale types
- Stable performance in highly corrosive cooling water environments
- Improves system reliability and extends equipment life
- Environmentally friendly and easy to handle

4. Typical Properties

Property	Value
Appearance	Transparent yellow liquid
pH (1% solution)	3.0±1.5
Density (20°C)	1.15 - 1.25 g/cm ³
Solubility	Completely soluble in water

*Note: The above data are typical values and not product specifications.

5. Usage & Dosage

Typical dosage: 30 – 100 ppm (depending on scaling potential, water quality, and system conditions). Dosage should be adjusted based on actual water analysis and system requirements. Please consult our technical team for customized treatment programs.

6. Packaging

- 25 kg / 200 kg plastic drums / 1000L IBC Tote
- Customized packaging available upon request

7. Storage & Handling

- Store in a cool, dry, and well-ventilated area.
- Avoid direct sunlight and freezing.
- Shelf life: 12 months in original unopened packaging.

8. Safety & Environmental Information

- Non-toxic formulation
- Handle with standard industrial safety precautions
- Refer to Safety Data Sheet - SDS for full safety and handling information.

9. Compliance

Complies with relevant local and international environmental regulations.