

Technical Data Sheet (TDS)

Product Name: Copper Corrosion and Scale Inhibitor

Product Code: CSI-0766

Revision Date: 2025-03-15

1. Product Description

Copper Corrosion and Scale Inhibitor can adsorb onto metal surfaces to form a thin protective film, shielding copper and other metals from atmospheric and harmful media corrosion. In circulating cooling water systems, it can be used in combination with various scale inhibitors and biocides, providing excellent corrosion protection for circulating cooling water system.

2. Application

Designed for cooling water systems containing copper or copper alloys, particularly effective under low hardness and high chloride conditions. Provides dual action of corrosion inhibition and scale prevention.

3. Product Features

- Excellent corrosion inhibition for copper and copper alloys
- Effective scale prevention in systems with high chloride and calcium ion concentrations
- Nitrite-free, chromate-free, and environmentally friendly
- Strong chelating and dispersing capability
- Maintains stability in harsh cooling water conditions
- Extends the service life of heat exchange equipment
- Easy to use and compatible with other water treatment chemicals

4. Typical Properties

Property	Value
Appearance	Light yellow liquid
pH (1% solution)	7.0 – 9.0
Density (20°C)	1.12±0.1 g/cm ³
Solubility	Fully soluble in water

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

5. Usage & Dosage

Typical dosage: 10 – 50 ppm, depending on water characteristics and system conditions. Dosage should be optimized based on actual water analysis. Please consult our technical support 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 exposure to direct sunlight or freezing temperatures
- Shelf life: 12 months in original unopened containers

8. Safety & Environmental Information

- Non-toxic and environmentally friendly formulation
- Use standard industrial personal protection when handling
- Refer to Safety Data Sheet - SDS for complete safety information

9. Compliance

Complies with local and international environmental and industrial water treatment regulations.