

Technical Data Sheet (TDS)

Product Name: Power Plant Corrosion and Scale Inhibitor

Product Code: CSI-0703

Revision Date: 2025-03-15

1. Product Description

This product is a blended formulation composed of organophosphonates, polycarboxylic acids, carbon steel corrosion inhibitors, and copper corrosion inhibitors. It provides excellent chelation and dispersion for calcium carbonate, calcium sulfate, calcium phosphate, and other scale-forming salts in water, while offering superior corrosion protection for both carbon steel and copper.

2. Application

Power Plant Cooling Water/Circulation Water/Condenser Cooling Systems

3. Product Features

- Excellent control of both scaling and corrosion under high-temperature conditions
- Protects condensers, heat exchangers, cooling towers, and circulating pipelines
- Maintains heat transfer efficiency, reduces fouling and energy loss
- Performs well under wide ranges of water quality and system load fluctuations
- Minimizes system downtime and maintenance requirements
- Compatible with other water treatment chemicals
- Environmentally responsible, phosphorus-reduced or phosphorus-free formulation options available

4. Typical Properties

Property	Value
Appearance	Clear to pale 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: 50 – 200 ppm (depending on water quality, system design, and operating conditions). Dosage should be determined based on actual water analysis and system load. Please consult our technical team for specific application recommendations.

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.