

Technical Data Sheet (TDS)

Product Name: Boiler-specific Corrosion and Scale Inhibitor

Product Code: CSI-0716

Revision Date: 2025-03-15

1. Product Description

CSI-0716 is a composite formulation composed of organo-phosphonates and polycarboxylic polymers. It exhibits excellent corrosion inhibition and scale prevention performance, with outstanding temperature resistance, making it highly effective for internal water treatment of low-pressure boilers. Applicable boiler systems include heating boilers, steam boilers, and locomotive boilers. In addition, this product can also be used for corrosion and scale control in systems such as seawater desalination, distillation units and automobile radiators.

2. Application

Low-Pressure Boilers / Heating Boilers / Steam Boilers / Locomotive Boilers / Seawater Desalination / Distillation Units / Automobile Radiators

3. Product Features

- Excellent corrosion and scale inhibition performance
- Outstanding thermal stability for high-temperature operation
- Effective protection for multi-metal systems including steel and copper
- Applicable to a wide range of boiler types and water treatment systems
- Reduces maintenance costs and prolongs equipment service life
- Compatible with most water treatment chemicals
- Environmentally friendly formulation

4. Typical Properties

Property	Value
Appearance	Yellow to pale yellow liquid
pH (1% solution)	3.0±1.5
Density (20°C)	1.10 – 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: 1–10 ppm (depending on water quality, scaling tendency, and boiler design). Dosage should be adjusted based on actual water analysis and operational parameters. 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.