



Technical Data Sheet (TDS)

Product Name: ASHAION® CI 211 CL

Product Type: Closed Loop Corrosion Inhibitor

Revision Date: April 2025

Product Description

ASHAION® CI 211 CL is a specialized corrosion inhibitor formulated for use in closed-loop chilled and hot water systems. It effectively prevents corrosion of ferrous and non-ferrous metals while maintaining the system's pH within optimal operational ranges. Its balanced formulation ensures long-term system protection, reduced maintenance costs, and improved heat exchange efficiency.

Applications

- Closed-loop chilled water systems
- Closed-loop hot water circuits
- HVAC systems in commercial, industrial, and institutional facilities
- Any system requiring corrosion protection and pH maintenance in recirculating water loops

Key Features & Benefits

- Corrosion Protection: Prevents corrosion of steel, copper, brass, and other metals
- pH Stability: Maintains pH in the desired range to avoid scale and corrosion
- Non-Acidic: Safer to handle and compatible with system materials
- Compatible with Glycol-Based Systems: Can be used with ethylene or propylene glycol

Physical & Chemical Properties

Property	Value
Appearance	Clear to pale yellow liquid
Odor	Mild
Specific Gravity @ 25°C	1.05 ± 0.05
pH (as supplied)	10.0 – 11.5
Solubility	Completely soluble in water
Freezing Point	< 0°C

Dosing Guidelines

Initial Dosage: 2.0 – 3.0% by volume of system water

Maintenance: Maintain nitrite levels between 800–1200 ppm and pH between 9.5–10.5

Dosage may vary depending on system volume and water quality.

Usage Instructions

1. Drain and clean the system if previously untreated.
2. Fill with fresh water and add ASHAION® CI 211 CL at recommended dosage.
3. Circulate the water for uniform distribution.
4. Periodically monitor pH and nitrite levels and adjust as needed.

Packaging & Storage

Available in 5L, 25L, 50L, and 200L HDPE drums

Store in a cool, dry, well-ventilated area away from direct sunlight

Shelf life: 12 months from the date of manufacture in sealed container

Safety & Handling

- Avoid contact with eyes and skin. Use appropriate PPE.
- In case of contact, rinse thoroughly with water.
- Refer to the Material Safety Data Sheet (MSDS) for detailed information.

Disclaimer

The information in this document is based on our current knowledge and experience and is intended to describe the product for health, safety, and environmental requirements only. It should not therefore be construed as guaranteeing specific properties or suitability for a particular application.