

## PRODUCT DATA SHEET

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### PRODUCT NAME: RTW-120

#### TYPE: Zinc-Phosphonate Based Organic Corrosion & Scale Inhibitor

For Open Recirculating Cooling Water Systems

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### PRODUCT DESCRIPTION

**RTW-120** is a high-performance corrosion and scale inhibitor formulated for open-loop recirculating cooling systems. It offers comprehensive protection against corrosion, scale formation, and fouling, particularly in low hardness, low alkalinity, and corrosive waters. The formulation incorporates **zinc**, **organophosphonates**, and **polymeric dispersants** for superior protection of ferrous and non-ferrous metal surfaces.

This environmentally responsible formulation is effective across a range of operating conditions and is especially beneficial where long-term system reliability and efficiency are critical.

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### KEY BENEFITS

- **Exceptional Corrosion Protection:** Effective against pitting, galvanic, and general corrosion of ferrous metals.
  - **Scale & Fouling Control:** Polymer blend minimizes under-deposit corrosion and maximizes heat exchange efficiency.
  - **Stability at High Temperatures:** Performs reliably even at elevated skin temperatures.
  - **Versatile Compatibility:** Compatible with mixed-metal systems and yellow metals.
  - **Single-Package Convenience:** One product addresses corrosion, scaling, and fouling reducing handling and dosing complexity.
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### APPLICATIONS, RTW-120 is ideal for:

- Open recirculating cooling towers
  - Low hardness and low alkalinity water systems
  - Industrial cooling systems in power plants, refineries, and process industries
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### FEEDING & DOSAGE

- **Start-up / Pre-treatment Dose:** 50–100 ppm (for 2 weeks)
  - **Maintenance Dose:** 30–60 ppm in recirculating water
  - Maintain:
    - **Zinc concentration:** >1 ppm
    - **System pH:** Between 6.5 and 8.3
    - **Avoid use if Langelier Saturation Index (LSI) > 1**
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### FEEDING METHOD:

- Continuous dosing using a proportioning pump
- May be fed as received or diluted
- Use only PVC, polyethylene, or polypropylene dosing equipment

### COMBINATION USE:

- For enhanced scale inhibition, RTW-120 can be used with **RTW-179 / RTW-170**
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### STORAGE & SAFETY

Store in a cool, dry place, avoid direct sunlight, avoid contact with skin, eyes, and clothing. Use appropriate personal protective equipment.

### PACKAGING

Polyethylene drums of 25 or 220 liters, containers of 1000 liters.