

PRODUCT DATA SHEET

PRODUCT NAME: RTW-421

TYPE: High-Performance Acid-Based Scale Remover

PRODUCT DESCRIPTION

RTW-421 is a concentrated, liquid acid-based descaling agent specifically designed to remove calcium carbonate, magnesium hydroxide, and light rust scale from heat exchangers, boilers, evaporators, and various water-based systems.

Formulated with corrosion inhibitors and surfactants, RTW-421 effectively targets scale deposits while protecting underlying metal surfaces from damage, ensuring efficient cleaning without harming system components.

Upon dilution with water, RTW-421 activates chemically to convert hard scale into soluble salts, which can be easily flushed from the system. A single treatment is typically sufficient to restore system efficiency. Periodic applications help prevent further scale buildup, reduce downtime, and minimize costly maintenance.

Note: RTW-421 is not recommended for use on zinc, tin, galvanized surfaces, aluminum, or their alloys. For systems containing these metals, use **RTW-420**, which is safe for aluminum and sensitive metals.

APPLICATION INSTRUCTIONS

- **Dosage:** 10–20% solution in water, depending on the severity and type of scale.
- **Temperature:** Can be used cold; however, optimal performance is achieved at 60°C.
- **Contact Time:** Circulate for 2–6 hours based on system condition.
- **Post-Cleaning Neutralization:** After descaling, flush the system with clean water and neutralize any residual acid using **RTW-430** at 1–2% concentration. Circulate the neutralizing solution for 1–3 hours, preferably at 50–60°C, then flush thoroughly.

To restore effectiveness during extended use, add more RTW-421 to maintain target concentration.

METHOD OF USE:

1. Add RTW-421 directly into the water within the system.
 2. Circulate the solution (hot or cold) until scale is removed.
 3. Rinse and neutralize with RTW-430 as described above.
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KEY BENEFITS

- Rapidly dissolves calcium, magnesium, and rust scale
 - Non-aggressive to sound metal when used as directed
 - Enhanced performance at elevated temperatures
 - Reduces downtime and costly mechanical repairs
 - Easy post-treatment neutralization
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STORAGE & SAFETY

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

PACKAGING

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