

PRODUCT DATA SHEET

PRODUCT NAME: RTW-201
TYPE: Phosphate-Based Hardness Treatment
For Boiler Water

PRODUCT DESCRIPTION

RTW-201 is a liquid phosphate treatment designed to reduce hardness in boiler systems by precipitating calcium hardness as a non-adherent sludge. This sludge is easily removed by blowdown, preventing scale buildup.

KEY BENEFITS

- Economical and highly effective phosphate-based hardness reducer
- Prevents calcium scale formation, protecting boiler surfaces
- Maintains sludge as a non-adherent, easily removable deposit
- Simple testing method to monitor treatment levels
- Suitable for boilers operating at all pressure ranges
- Does not affect system alkalinity, maintaining stable water chemistry

USAGE

RTW-201 reacts with calcium ions to form precipitates that remain suspended and do not adhere to boiler metal surfaces, allowing efficient removal through blowdown.

DOSAGE GUIDELINES

- Initial dosage ranges between **50-130 mL per ton of boiler water**, depending on boiler pressure.
- Maintain free phosphate levels in the boiler water according to boiler pressure (see dosage table below).

Dosage Table: RTW-201 (mL per ton of water)

| Boiler Pressure Range | Pressure (Psi) | Phosphate Level (ppm PO ₄) | Initial Dose (mL/Ton) | Treatment Status |
|-----------------------|----------------|--|-----------------------|-------------------------|
| 0 - 40 Bar | 0 - 588 | 0-10 | 130 | Required |
| | | 10-20 | 100 | Satisfactory |
| | | 20-50 | — | Satisfactory / Blowdown |
| 41 - 60 Bar | 603 - 880 | 0-10 | 60 | Required |
| | | 10-20 | 30 | Satisfactory |
| | | 20-50 | — | Blowdown |
| > 60 Bar | > 880 | 0-10 | 50 | Required |
| | | 10-20 | — | Satisfactory / Blowdown |

Note: Values are recommendations based on experience and should complement boiler manufacturer specifications and company policies.

APPLICATION & MONITORING

- Dose RTW-201 directly into the boiler via a bypass pot feeder for best results.
- Collect daily boiler water samples from a consistent location post-blowdown. Cool and test immediately.
- Maintain phosphate levels within **10-50 ppm**, adjusted based on boiler pressure.

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.