

PRODUCT DATA SHEET

PRODUCT NAME: RTW-220
TYPE: Catalyzed Oxygen Scavenger
 For Rapid Boiler Water Oxygen Removal

PRODUCT DESCRIPTION

RTW-220 is a catalyzed liquid oxygen scavenger formulated specifically for use in low to medium pressure boilers, up to 850 PSI. It efficiently removes dissolved oxygen from boiler water to protect metal surfaces from corrosion and prolong boiler lifespan.

APPLICATIONS

RTW-220 is primarily used in boiler water treatment to rapidly react with dissolved oxygen, converting it into inert sodium sulfate. This fast action minimizes oxygen-related corrosion. Additionally, RTW-220 can be employed for free chlorine removal; 4 ml of RTW-220 neutralizes 1 gram of free chlorine.

KEY FEATURES AND BENEFITS

- Highly concentrated liquid formulation
- Rapidly removes oxygen to protect boilers from corrosion
- Catalyzed for accelerated reaction even at low temperatures
- Enhances the effectiveness of mechanical deaeration systems
- Easy to monitor with simple test methods

DOSAGE AND ADMINISTRATION

- Initial dosage range: **0.10 – 0.20 liters per ton** of boiler water, depending on boiler pressure and dissolved oxygen levels.
- Maintain sulfite residual levels between **20 – 50 ppm**, adjusted according to boiler pressure and design.
- Approximate dosing guideline: **32 ppm of RTW-220** required per 1 ppm oxygen to be scavenged.
- Ideal dosing point is the **boiler feed water line**, though other points may be used based on system design.

MONITORING AND TESTING

- Obtain boiler water samples regularly (daily or every few days, depending on boiler type and pressure).
- Test sulfite levels to verify oxygen scavenging efficacy and adjust dosing accordingly.
- Increase or decrease dosing by 25% if sulfite residual falls below or rises above the satisfactory range.

Boiler Pressure	PSI	Kg/cm ²	Residual Sulfite (ppm as SO ₃)	Dosage Guidance
Up to 450	Up to 32	20–50	Satisfactory	Maintain dosage
450 – 850	32 – 60	10–20	Satisfactory	Maintain dosage
Any	Below range	—	Increase dosage by 25%	Adjust accordingly
Any	Above range	—	Decrease dosage by 25%	Adjust accordingly

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.