#### **RETHINKING WATER LIMITED**

RTW
WATER CONCENTRIC SOLUTIONS

7 Claremont Avenue, Timperley Cheshire, UNITED KINGDOM Tel; +44 7787 406996 E-mail: info@rtwater.co.uk Web: www.rtwater.co.uk

## **PRODUCT DATA SHEET**

PRODUCT NAME: RTW-230 TYPE: Alkalinity Builder

For Boiler Water Alkalinity Treatment

### PRODUCT DESCRIPTION

RTW-230 is a high-strength alkaline and amine liquid treatment designed to maintain optimal pH conditions in boiler systems, ensuring effective corrosion and scale prevention. It plays a key role in Coordinated Treatment Program, working in synergy with hardness control additives to optimize boiler water chemistry.

#### **KEY BENEFITS**

- · Maintain ideal alkalinity levels in boiler water
- Neutralizes acidic gases to minimize corrosion
- Promotes the formation of a protective magnetite (Fe<sub>3</sub>O<sub>4</sub>) film on metal surfaces
- · Compatible with all boiler pressures
- FDA-approved for food-contact steam applications
- Helps prevent scale formation and ensures maximum system efficiency

### **APPLICATION GUIDELINES**

**RTW-230** is recommended for use in all types of boilers, particularly where consistent alkalinity is needed to support corrosion inhibition and scaling control.

### **DOSAGE & CONTROL**

The initial dosage range is 235–280 mL per ton of boiler water, depending on operating pressure. Actual dosage should be adjusted based on P-Alkalinity (as CaCO<sub>3</sub>) test results and the table provided below.

**Target pH:** 9.5 – 11.0

(Follow boiler manufacturer's recommendations where different.)

### **DOSAGE GUIDE (mL per ton of water)**

Boiler Pressure	P-Alkalinity (ppm CaCO <sub>3</sub> )	Dose (mL/ton)
0–30 Bar (0–441 psi)	0–60	225
	60–90	110
	90–100	70
	100–150	Satisfactory – No dose
	>150	Blowdown
	Target Range	100-150 ppm



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Boiler Pressure	P-Alkalinity (ppm CaCO <sub>3</sub> )	Dose (mL/ton)
31–40 Bar (456–588 psi)	0–60	190
	60–90	80
	90–100	60
	100–150	Blowdown
	>150	Blowdown
	Target Range	100–130 ppm
41-60 Bar (603-882 psi)	0–60	170
	60–90	80
	90–100	60
	100–150	Blowdown
	>150	Blowdown
	Target Range	100–120 ppm

### Note:

- 225 mL per ton raises P-Alkalinity by 100 ppm
- Always verify with regular alkalinity testing
- · Adjust dose accordingly and perform blowdown if alkalinity exceeds target range

# **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 250 liters.