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SC-BW-601

Boiler Alkalinity Builder
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DESCRIPTION & USE

SC-BW-601 is a concentrated liquid alkalinity booster specifically designed for industrial boiler water treatment programs. It aims to increase and maintain boiler water alkalinity within recommended limits, helping to neutralize acidic conditions that can cause corrosion of boiler metal surfaces. By providing controlled alkalinity, SC-BW-601 encourages the formation of protective oxide films on steel surfaces, reduces corrosion, and supports efficient operation of steam-generating systems. The product is suitable for use in low, medium, and high-pressure industrial boilers as part of a comprehensive boiler water treatment plan.

APPLICATIONS

- Industrial steam boilers
- Hot water boilers
- Utility boilers
- Process heating systems
- Boiler feedwater conditioning
- Central heating systems

MODE OF ACTION

SC-BW-601 supplies alkalinity to the boiler water, helping maintain the optimum pH range required for corrosion control and system protection. Adequate alkalinity minimizes acidic attack on boiler surfaces and helps maintain stable boiler water chemistry.
When used as part of a complete treatment program, SC-BW-601 contributes to improved boiler reliability, reduced corrosion rates, and enhanced operating efficiency.

DOSAGE & CONTROL

Typical dosage range: 20–100 ppm based on system requirements. Actual dosage depends on feedwater quality, boiler pressure, alkalinity demand, condensate return percentage, and treatment program objectives. Control parameters include Boiler Water pH, P-Alkalinity, M-Alkalinity, and Conductivity. Dosage should be adjusted based on regular water analysis and operational conditions.

MATERIAL COMPATIBILITY

SC-BW-601 is compatible with carbon steel, stainless steel, and common boiler system materials when used in accordance with the recommended treatment guidelines.

SYSTEM SUITABILITY

Designed for use in industrial boiler systems as part of an integrated water treatment program. For optimum performance, SC-BW-601 may be used in conjunction with oxygen scavengers, sludge conditioners, and condensate treatment chemicals.

APPLICATION METHOD

Dose continuously into the boiler feedwater tank, deaerator, or chemical dosing point using a suitable metering pump. Ensure adequate mixing for uniform distribution throughout the system.

TYPICAL PROPERTIES

Property	Value
Appearance	Clear, colorless to Light Yellow Liquid
Odor	Mild
pH (Neat)	>12.0
Specific Gravity (25°C)	1.20 – 1.35
Solubility in Water	Completely Soluble
Flash Point	None

STORAGE, SHELF LIFE & PACKING

Storage: Store in tightly closed containers in a cool, dry, well-ventilated area.
Shelf Life: 2 years when stored under recommended conditions.
Packing: Available in 25 Ltr & 200 Ltr drums and 1000 Ltr returnable IBCs (or as per customer requirement).

IMPORTANT NOTE

The information herein is intended for industrial and professional users.
Users should verify product suitability under actual operating conditions and follow all applicable regulations, equipment manufacturer recommendations, and industry best practices.