Sheran Chemicals Trading CO LLC
Block No-G, Plot-180C, Al Hail Industrial Area, Fujairah, UAE
Phone: +971 9501 3271 | E-mail: info@Sheran.net
Contact Person: operations@sheran.net

Technical Data Sheet.

SC-BW-6041

BOILER FEEDWATER TREATMENT

T.D.S

Revision Date:2026-05-04

DESCRIPTION & USE

SC-BW-6041 is a concentrated all-in-one boiler feedwater treatment specifically formulated to provide comprehensive protection against boiler corrosion, scale formation, sludge deposition, and condensate system corrosion. The product combines oxygen scavenging, alkalinity control, scale inhibition, sludge conditioning, and condensate protection in a single liquid formulation, simplifying boiler water treatment programs while maintaining effective system protection.

SC-BW-6041 is designed for boiler systems where installing multiple dosing points is impractical or where operational simplicity is desired. By incorporating multiple treatment functions into one product, SC-BW-6041 eliminates the need for separate handling, storage, and injection of individual chemicals, reducing chemical inventory requirements and minimizing dosing errors.

The product controls the formation of scale-producing deposits by inhibiting calcium and magnesium precipitation while conditioning suspended solids into a non-adherent sludge that can be removed through routine boiler blowdown procedures. Simultaneously, the oxygen scavenging components reduce dissolved oxygen levels that contribute to pitting and corrosion in boiler systems.

In addition to protecting the boiler itself, SC-BW-6041 contains volatile corrosion inhibitors that travel with the steam and provide protection throughout the condensate return network. This helps maintain condensate quality, reduce iron transport, and extend the service life of steam distribution and condensate return systems.

Regular use of SC-BW-6041 improves heat transfer efficiency, reduces fuel consumption associated with scale formation, minimizes corrosion-related failures, and extends equipment life. The product is suitable for industrial, marine, utility, and commercial boiler installations operating under a wide range of feedwater conditions.

FEATURES & BENEFIT

Controls scale formation, reduces corrosion, protects condensate system, oxygen scavenging action, sludge conditioning, simplifies chemical inventory and supports marine and industrial boiler systems.

APPLICATION

Suitable for fire tube boilers, water tube boilers, marine boilers, steam generators and process heating systems. Dose into feedwater tank, deaerator, feedwater line or dosing tank.

DOSAGE

Typical dosage: 50–200 ppm based on feedwater flow. Adjust dosage according to water analysis and operating conditions.

TYPICAL PROPERTIES

Property	Specification
Appearance	Clear Amber to Dark Brown Liquid
Odor	Mild Characteristic Odor
pH (Neat)	10.0 - 12.5
Specific Gravity @ 25°C	1.10 - 1.25
Solubility	Completely Miscible in Water
Flash Point	None

TARGET CONTROL LIMITS & TEST METHODS

Parameter	Recommended Limit	Test Method
Boiler Water pH	10.5 - 11.5	pH Meter
Sulphite Residual	20 - 60 ppm	Sulphite Test
Phosphate Residual	20 - 50 ppm	Phosphate Test
P-Alkalinity	As Program Requirement	Alkalinity Test
Conductivity	As System Requirement	Conductivity Meter
Condensate pH	8.3 - 9.2	pH Meter
Iron (Fe)	< 1 ppm Preferred	Iron Test

HANDLING & STORAGE

- Handle in accordance with good industrial hygiene practices.
- Avoid unnecessary contact with skin and eyes.
- Wear suitable gloves and eye protection during handling.
- Store in original tightly closed containers.
- Protect from direct sunlight and freezing temperatures.
- Store in a cool, dry, and well-ventilated area.

Recommended Storage Temperature

5°C – 40°C

Shelf Life

24 Months under recommended storage conditions.

PACKAGING

Available in:

- 25 L HDPE Drum
- 200 L HDPE Drum
- 1000 L IBC Tank

Other packaging sizes are available upon request.

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.