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Technical Data Sheet.

SC-BW-602

DEHA-Based Oxygen Scavenger & Corrosion Inhibitor.

T.D.S

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DESCRIPTION & USE

SC-BW-602 is a liquid DEHA-based oxygen scavenger specially formulated for industrial boiler water treatment programs. The product effectively removes dissolved oxygen from boiler feedwater, preventing oxygen-related corrosion in boilers, feedwater systems, condensate lines, and associated equipment. Unlike sulfite-based oxygen scavengers, SC-BW-602 does not significantly contribute to dissolved solids in the boiler system and provides corrosion protection throughout both the boiler and the condensate return network.

APPLICATIONS

Industrial steam boilers, hot water boilers, boiler feedwater systems, deaerator storage tanks, condensate return systems, and process heating systems.

MODE OF ACTION

SC-BW-602 contains Diethylhydroxylamine (DEHA), a volatile oxygen scavenger that reacts rapidly with dissolved oxygen to form non-corrosive by-products. DEHA promotes the formation and maintenance of protective magnetite films on steel surfaces, reducing corrosion throughout the boiler, steam, and condensate systems. Its volatility allows treatment to carry over with steam, providing protection to condensate return lines.

DOSAGE & CONTROL

SC-BW-602 dosage requirements depend upon dissolved oxygen concentration, boiler operating pressure, feedwater quality, condensate return percentage, and deaerator performance.

Boiler Feedwater Volume	Initial Dosage
1 Ton	20 – 80 ml
10 Tons	0.2 – 0.8 Ltr
50 Tons	1 – 4 Ltr
100 Tons	2 – 8 Ltr

Actual dosage should be optimized based on dissolved oxygen analysis and system operating conditions.

TYPICAL PROPERTIES

Property	Value
Appearance	Clear to Pale Yellow Liquid
Odor	Mild Aminic Odor
pH	8.5 – 10.5
Specific Gravity (25°C)	0.95 – 1.10
Solubility in Water	Complete
Flash Point	None

APPLICATION METHOD

Dose continuously into the deaerator storage tank, feedwater tank, or boiler feedwater line using a suitable chemical metering pump. Continuous dosing is recommended for optimum protection.

CONTROL PARAMETERS

Parameter	Recommended Range
Dissolved Oxygen	< 0.007 ppm
Feedwater pH	8.5 – 9.5
Boiler Water pH	10.5 – 11.5
Iron	As low as possible
Feedwater Hardness	Nil
Conductivity	As per boiler program requirements

RECOMMENDED TEST EQUIPMENT

- DEHA Test Kit
- Dissolved Oxygen Test Kit
- Boiler Water pH Test Kit
- Conductivity Meter
- Iron Test Kit
- Feedwater Hardness Test Kit

MATERIAL COMPATIBILITY

Compatible with carbon steel, stainless steel, and commonly used boiler system materials when applied according to recommendations.

SYSTEM SUITABILITY

Designed for low, medium, and high-pressure industrial boiler systems requiring oxygen scavenging and corrosion control.

SYSTEM SUITABILITY

Store in tightly closed containers in a cool, dry, well-ventilated area.
Shelf Life: 2 years under recommended storage conditions.
Available in 25 Ltr and 200 Ltr drums and 1000 Ltr returnable IBCs.

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.