TECHNICAL DATA SHEET

A 20SB

Oxygen Scavenger – Boiler Corrosion Control

1. PRODUCT DESCRIPTION

A 20SB is a professionally engineered oxygen scavenger based on sulfite formulated for the removal of dissolved oxygen in steam boiler feed water systems.

A 20SB is designed to:

• Eliminate residual dissolved oxygen
• Prevent oxygen pitting corrosion
• Maintain reducing conditions inside the boiler
• Promote formation of protective magnetite (Fe_3O_4) layer
• Protect boiler tubes, drums, and economizers

Recommended for low and medium pressure steam boilers as part of a complete internal treatment program.

2. MECHANISM OF ACTION

A 20SB reacts chemically with dissolved oxygen to form stable, non-corrosive compounds.

Primary function:

• Rapid oxygen removal before water enters boiler
• Maintains sulfite reserve
• Supports protective iron oxide film formation

This minimizes localized pitting and extends equipment life.

3. APPLICATION & DOSAGE

Application:
Continuous feed water treatment.

Recommended Control Range:
• Sulfite residual: 20 – 40 ppm
• Dissolved oxygen target: ≤ 0.02 ppm

Injection Method:
• Continuous dosing via metering pump
• Inject into deaerator storage section or feed pump suction

Dosage depends on:
• Feed water oxygen content
• Boiler pressure
• Steam load

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4. TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Form: Liquid
Appearance: Clear to pale yellow liquid
Specific Gravity @ 25°C: 1.15 – 1.25
pH (Neat): 11 – 12.5
Solubility: Completely soluble in water
Flammability: Non-flammable
Volatility: Non-volatile

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5. COMPATIBILITY

Material Compatible with:
• Carbon Steel
• Mild Steel
• Stainless Steel
• Boiler metallurgy

Avoid mixing with strong oxidizing agents.

Technical Compatible with:

Parameter	Recommended Range
Boiler Pressure	up to 40 bar
Boiler pH	10.5 – 11.5
TDS	According to boiler design

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6. PACKAGING

25 kg HDPE drums
Bulk packaging available upon request

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7. STORAGE & SHELF LIFE

Store in sealed containers away from direct sunlight.
Shelf Life: 12 – 24 months.
