



RXSOL

CHEMO PHARMA INTERNATIONAL

Technical Data Sheet (TDS)

RXSOL-34-6119-250

Oxygen Scavenger OxyGuard S

A fast-acting, catalyzed sodium sulphite (Na_2SO_3) oxygen scavenger for low- and medium-pressure boiler systems. The product reacts stoichiometrically with dissolved oxygen to prevent corrosion in boilers, feed lines, and condensate systems by converting oxygen to inert sulfate.

Application

- Oxygen removal in low/medium-pressure boilers (typically up to ~65 bar; usage above this pressure is uncommon due to potential sulfate/solids carryover).
- Hot standby protection to prevent pitting during idle periods i.e. Oilfield Application.
- Feedwater & deaerator outlets where residual O_2 must be suppressed rapidly.

Dosage

Power of Oxygen Scavenger OxyGuard-S: powerful stoichiometry: ~7.88 mg/L Na_2SO_3 per 1 mg/L dissolved O_2 . With safety factor (process variability, kinetics), dose 10-12 mg/L Na_2SO_3 per 1 mg/L O_2 .

Properties

Property	Specification
Appearance	Clear to pale straw liquid
Specific gravity @ 25 °C	~1.30 - 1.34 (depends on strength)
pH (neat)	8.5 - 10.5 (stabilized alkaline)
Odor	Faint sulfurous
Freeze point	< 0 °C (varies with strength)
Solubility	Completely miscible with water

Benefits

- Rapid kinetics with catalyst—effective even at moderate temperatures.
- Reliable corrosion protection of pre-boiler & boiler circuits.
- Cost-effective vs. volatile scavengers for LP/MP systems.
- Easy control by simple sulfite residual testing.
- Compatible with most phosphate/polymer internal treatments.

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