

Technical Data Sheet (TDS)

ASA-B 620



Chemical Product

Product Name: ASA-B 620

Use: Sodium Bisulfite (Catalyzed) based Oxygen Scavenger

Introduction

The ASA-B 620 is a widely used oxygen scavenger formulated for low to medium pressure boiler systems. It is composed primarily of sodium sulfite (Na_2SO_3) and is enhanced with a cobalt-based catalyst (typically cobalt sulfate) to significantly accelerate the reaction rate with dissolved oxygen. The catalytic action enables rapid and complete removal of oxygen, even at relatively low temperatures and short residence times, making it ideal for use in deaerated feedwater systems. The reaction between sulfite and oxygen produces sodium sulfate, a harmless and non-volatile byproduct, which does not contribute to corrosion or deposit formation.

Advantages:

- Fast reaction rate: Cobalt catalyst accelerates the oxygen scavenging reaction by up to 100 times compared to non-catalyzed sulfite
- Effective at lower temperatures and short contact times
- Ideal for low and medium pressure boilers (typically <60 bar / 900 psi)
- Prevents pitting corrosion in feedwater lines, boiler drums, and condensate systems
- Cost-effective solution for oxygen removal in industrial and utility boilers
- Compatible with common boiler treatment programs and co-treatment with phosphates and dispersants
- Non-volatile and does not contribute to carry over into steam
- Easy to handle and apply, available in both liquid and powder formulations

Dosages:

The dosage will vary on the quality of the feed water; ASA-B 620 is typically controlled to maintain a slight excess of sulfite in the boiler water (e.g., 20–40 ppm residual).

Typical Properties

➤ Appearance	:	Colorless Liquid
➤ Specific Gravity	:	1.02-1.35
➤ Solubility	:	Soluble in all proportions of water.
➤ pH	:	9.0-11

PACKAGING

ASA-B 620 is supplied in P.E drums of 220 kg capacity.

Storage

Keep cool, dry ventilated storage and clean containers.

Shelf Life

Two years in closed drums stored under cover and protected from extremes of temperature.

Performance monitoring

The performance of ASA-B 620 can be continuously monitored by corrosion rate and measuring the oxygen concentration.

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