

Technical Data Sheet (TDS)

ASA-B 610



Chemical Product

Product Name: ASA-B 610

Use: Carbohydrazide based Oxygen Scavenger

Introduction

The ASA-B 610 is a high-performance, non-volatile chemical treatment designed for the effective removal of dissolved oxygen in boiler feedwater and condensate systems. Dissolved oxygen is a primary contributor to pitting and corrosion in metal surfaces, especially in high-pressure boilers. Carbohydrazide acts as a strong reducing agent, reacting with oxygen to form harmless byproducts (primarily nitrogen and water), while also decomposing to produce passivating agents that help form a protective oxide layer on metal surfaces. Unlike traditional oxygen scavengers like hydrazine, ASA-B 610 offers comparable efficiency without the associated toxicity, making it a safer and environmentally friendly alternative.

Advantages:

- Non-toxic alternative to hydrazine with excellent safety and handling properties
- Highly effective at high temperatures and pressures, making it ideal for high-pressure boiler systems
- Decomposes cleanly without producing harmful volatile byproducts
- Promotes passivation of metal surfaces (especially steel and copper) by aiding in the formation of a protective oxide layer
- Compatible with all common boiler materials and other water treatment chemicals
- Reduces corrosion rates in feedwater lines, economizers, steam drums, and condensate return lines
- Can be used in both deaerated and non-deaerated systems
- Helps extend boiler life, reduce downtime, and minimize maintenance costs

Dosages:

The dosage will vary on the quality of the feed water; usually ASA-B 610 dosage must be injected such that Carbohydrazide residual concentration be maintained 100 ppb or more in boiler and the Oxygen concentration be lower than 7 ppb.

Typical Properties

➤ Appearance	:	Colorless to light yellow with amine odor
➤ Specific Gravity	:	1.00-1.05
➤ Solubility	:	Soluble in all proportions of water.
➤ pH	:	8.5-10

PACKAGING

ASA-B 610 is supplied in P.E drums of 230 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 610 can be continuously monitored by corrosion rate and measuring the oxygen concentration.

Address: Unit 1 South ,No 358, North Mofateh Ave, Tehran, Iran.

 Tel: (+98)21 88 75 08 68

 URL: www.ASACChem.ir

 E-Mail: info@ASACChem.ir