

Technical Data Sheet (TDS)

ASA-B 650



Chemical Product

Product Name: ASA-B 650

Use: Morpholine-based corrosion inhibitors for boiler water Treatment

Introduction

The ASA-B 650 is Morpholine-based corrosion inhibitors are widely used in steam boiler systems to protect condensate return lines from acid-induced corrosion. Morpholine is a volatile neutralizing amine that travels with the steam and neutralizes carbonic acid formed by the condensation of CO₂ in the system. This helps raise and stabilize the pH of the condensate, reducing corrosion in carbon steel and copper alloy piping.

Advantages:

- Volatile and Steam-volatile: Morpholine vaporizes with steam and distributes uniformly throughout the steam-condensate system
- Neutralizes Carbonic Acid: Prevents low-pH conditions in condensate caused by dissolved CO₂
- Compatible with other treatment chemicals such as oxygen scavengers and other neutralizing amines
- Protects entire condensate system, including traps, heat exchangers, and piping
- Improves reliability and longevity of condensate return lines by minimizing corrosion
- Reduces iron and copper transport back to the boiler, helping to maintain boiler cleanliness
- Safe for use in food and pharmaceutical industries when applied within accepted guidelines
- Thermally stable under boiler operating conditions

Dosages:

The dosage should be done in such a way that to maintain condensate pH in the range of 8.3 to 9.0, depending on system metallurgy

Typical Properties

- | | | |
|---------------------------|---|---|
| ➤ Appearance | : | Colorless Liquid |
| ➤ Specific Gravity | : | 1.00-1.04 |
| ➤ Solubility | : | soluble in all proportions of water. |
| ➤ pH | : | > 10 |

PACKAGING

ASA-B 650 is supplied in P.E drums of 200 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 650 can be continuously monitored by corrosion rate.

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