

Technical Data Sheet (TDS)

ASA-B 450



Chemical Product

Product Name: ASA-B 450

Use: Scale Inhibitor for Boiler

Introduction

ASA-B 450 is effective in preventing sludge deposition and corrosion through the boiler and condensate system. ASA-B 450 is a blend of Sodium Phosphate Tribasic (Na_3PO_4) and organic polymer. They prevent calcium and magnesium salts from baking on boiler evaporative surfaces. They are all converted into trisodium phosphate and as such react with the calcium to form tricalcium phosphate, a rather flocculent precipitate. It should be noted that maintaining sodium to phosphate molar ratio between 2:1 to 3:1 typically will keep the pH and phosphate concentration of the system within acceptable range. The sodium to phosphate molar ratio within ASA-B 450 is about 3:1.

Advantages:

- Very efficient scale inhibitor and metal oxides deposit.
- Prevent corrosion and scale in feed and boiler system.
- Minimizes iron pick-up.
- Appropriate for High and medium pressure boilers.

Dosages:

The dosage varies on the amount of the steam rate and operating conditions. The ASA-B 450 is injected continuously to boiler drums such that orthophosphate residual concentration be maintained between 5-15 ppm in boiler.

Typical Properties

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|---------------------------|---|---|
| ➤ Appearance | : | Bright Yellow Liquid |
| ➤ Specific Gravity | : | 1.00-1.05 |
| ➤ Solubility | : | Soluble in all proportions of water. |
| ➤ pH 10% | : | > 12 |

PACKAGING

ASA-B 450 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 450 can be continuously monitored by scale rate.

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