



VpCI™ FORMULATED PRODUCTS FOR PROCESS INDUSTRIES



gas oil  
brine

## S-15

### Total Replacement for Hydrazine Programs



#### PRODUCT DESCRIPTION

S-15 is effective in controlling corrosion caused by oxygen and carbon dioxide in high and medium pressure boilers and condensate lines.

S-15 utilizes the combination of volatile neutralizing amines in conjunction with an oxygen scavenger – metal passivator. This combination improves corrosion control in two ways; first, any acidic species present are neutralized and the pH is increased, leading condensate to become less corrosive. Second, the oxygen scavenger/passivator reacts more rapidly in the alkaline conditions maintained by the amines in the S-15 than at lower pH levels found with conventional products.

S-15 provides excellent passivation, high volatility, thermal stability, and low toxicity.

S-15 does not leave solid residue in the boiler systems and helps to provide high quality steam.

#### FEATURES

- Minimizes corrosion and deposits in medium and high pressure boiler systems
- Economical (recycled with the condensate)
- Compatible water treatment programs
- High efficiency against oxygen and carbon dioxide corrosion
- Thermally stable
- Low toxicity - doesn't contain any hydrazine-based compounds
- Easy to handle, feed, and formulate
- Passivates by converting hematite (soft red rust) to magnetite (hard black rust)
- Minimizes boiler rust deposits by reducing condensate corrosion
- Ideal for medium and high pressure boilers

#### PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Amber to brown liquid
pH	11-12 (1% in water)
Odor	Amine-like
Density	8.1-8.2 lbs/gal (0.97-0.98 kg/l)
Solubility in water	Miscible

#### DOSAGE INFORMATION

The dose should be adjusted to maintain the pH level between 8.0-8.5 and residual oxygen scavenger level. Usually it takes 2-5 ppm of continuous treatment.

#### FEEDING INSTRUCTION

S-15 may be added separately to the dearator storage section, feedwater line, or by direct injection in the steam drum.



## PACKAGING AND STORAGE

S-15 is packaged in 5 gallon (19 liter) containers, 55 gallon (208 liter) metal drums, liquid totes, or bulk. Product should be stored in a tightly closed container. Shelf life is 12 months.

### FOR INDUSTRIAL USE ONLY

**KEEP OUT OF REACH OF CHILDREN**

**KEEP CONTAINER TIGHTLY CLOSED**

**NOT FOR INTERNAL CONSUMPTION**

**CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION**

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