

## DESCRIPTION

**EK-1 WH** is an additive for the Steam Boilers and Hot Water Boilers. It prevents furring, ooze and corrosion which may occur in the boiler by dosing certain amounts to the boiler water. It is a complete product. While controlling Oxygen Corrosion and Furring in the boiler, it balances Alkalinity as well. Contains catalyzed sulfide based oxygen catcher.

Chemical Name : Water conditioning (Chemical Mixture)  
Document No : SP-KS-005  
Trade Name : **EK-1 WH (BOILER WATER TREATMENT)**  
Usage : Anti corrosive and anti-scab for boiler and steam lines.

## A. ORGANIC PROPERTIES

Appearance  
Physical State (20°C) : Liquid  
Color : Transparent liquid  
Odor : Sulfide odor

## B. PHYSICAL PROPERTIES

pH : 7.0 – 8.0  
Molecular weight : -  
Explosion Limit : None  
Flash point : None  
Relative Density : 1.15 – 1.25 g/cm<sup>3</sup>  
Solubility : Completely soluble in water.

## APPLICATION, FEATURES & BENEFITS

- ✓ In regular use, it provides significant energy savings by preventing furring, corrosion which may occur within the boiler.
- ✓ In regular use, it provides the steam lines life time at maximum.
- ✓ In regular use, it prevents abrupt stops, explosion, perforation, blocking and provides both time and money savings without requirement of extra cleaning process in periodical maintenance.

## BOILER WATER TREATMENT

- ✓ In regular use, it decreases energy cost and increases steam quality by shortening the regime period of the

boiler (the period of steam production starting from the working time).

## STORAGE INFORMATION

Packaging: Packed in original plastic jerry cans of 25-30-35-70-200 L. Storage period is 3 years.

## DIRECTIONS FOR USE/APPLICATIONS & DOSAGE RATES

If there is no treatment chemical in boiler water system; first dosage for EK-1 WH is 250 g/ 1 ton water. Following dosages will be calibrated to 30-100 grams / ton (water). The most ideal dosing place to dosage EK-1 WH is make up water inlet line, water station of the degasser or condensate (hot well) tank. We recommend that dosing process to be done by dosage pump for the continuity of the process.

## TEST METHOD

**SULFIDE TEST:** Same test methods for EK-1 is valid. Since this product contains Sulfide instead of Hydrazine, the amount of the Oxygen scavenger must be measured by performing “Sulfide Test”. EK-1 WH is catalyzed sulfide based, that is why it is recommended to be used for the boilers up to 30 atm maximum.

For 0-10 atm boilers 50-60 ppm,

For 10-20 atm boilers 40-50 ppm,

For 20-30 atm boilers 30-40 ppm of sulfide provides sufficient protection.