

## ProPure Phos ERFOS-3 (HARDNESS CONTROL)

Additive against scab in steam boiler and boiling water tanks.

### Description

ProPure Phos is an effective additive for steam boilers. It prevents corrosion, scale, sludge (in sediment form), and foaming. It reacts with hardness leakages and forms compounds that do not adhere to surfaces (these compounds are removed through blowdown). ProPure Phos also eliminates scale, lime, and rust inside the boiler..

### Directions For Use/Applications & Dosage Rates General Cleaning

**PHOSPHATE TEST:** This test is conducted to determine the presence of ProPure Phos in the boiler. A phosphate level of 20-40 ppm (parts per million) is optimal for boiler water. If the phosphate level exceeds 40 ppm, the system should be partially blown down until it falls within the 20-40 ppm range. Conversely, if the phosphate level is below 20 ppm, the dosage of ProPure Phos should be increased.

A dosage of 50 grams of ProPure Phos will raise the phosphate level by 2 ppm in 1 ton of water. Therefore, if the phosphate concentration in the boiler water is measured at 10 ppm, this will correspond to a 20 ppm level within the boiler.

For 0-40 atm boiler pressure 20-40 ppm phosphate is sufficient.

For 40-60 atm 20-30 ppm phosphate is sufficient.

For >60 atm boilers 5-10 ppm of phosphate is sufficient and provides efficient protection.

### Boiler Water Treatment

#### Summary

- Provides significant energy savings by preventing scab and sludge, which may occur within the boiler. It prolongs the life of pipes in regular use.
- In regular use, it prevents abrupt stops, blockage and provides both time and money saving without the requirement of an extra cleaning process in periodical maintenance.
- 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).

#### A) Organic Properties

Physical State (20°C): Liquid  
Color : Transparent  
Odor : Odorless

#### B) Physical Properties

pH : 6.0 – 7.0  
Molecular weight : -  
Explosion Limit : None  
Flash point : None  
Relative Density : 1.07 – 1.17 g/cm<sup>3</sup>  
Solubility : Completely soluble in water.

#### Storage Conditions

Packed in original plastic jerry cans of 25L.  
Storage period is 3 years.

#### Approvals & Certificates



Product No : SP-KS-008