

DESCRIPTION

ERFOS-3 is an effective additive for steam boilers, which prevents the boiler from corrosion, scale, mud (in sediment form) and foam. It reacts with hardness leakages and forms compounds, which doesn't stick to surfaces (blow down is the method to get rid of these compounds). Erfos-3 also removes the scale, lime and rust inside the boiler.

Chemical Name	: Water conditioning (Chemical Mixture)
Document No	: SP-KS-008
Trade Name	: <u>ERFOS-3 (HARDNESS CONTROL)</u>
Usage	: Additive against scab in steam boiler and boiling water tanks.

A. ORGANIC PROPERTIES

Appearance

Physical State (20°C)	: Liquid
Color	: Transparent liquid
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 ³
Solubility	: Completely soluble in water.

APPLICATION, FEATURES & BENEFITS

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

STORAGE & TRANSPORTATION

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

DIRECTIONS FOR USE/APPLICATIONS & DOSAGE RATES

ERFOS-3 is a scab inhibitor. Initial dosage is 200 ml per ton of water. For continuous dosage 40 to 100 ml per ton will be enough. **ERFOS-3**, Boiler water additive, can be dosed by the chemical injection pump to water tank or to the economizer inlet.

TEST METHOD

PHOSPHATE TEST: It is performed in order to test the presence of ERFOS-3 in the boiler. 20-40 ppm phosphate is sufficient in boiler water. If phosphate is higher than 40 ppm the system has to partially bluffed till it is between 20-40 ppm. If phosphate is lower than 20 ppm dosage of ERFOS-3 should be increased. 50 g ERFOS-3 dosage increases 2 ppm phosphate in 1 ton water. If the concentration in boiler water is 10, this reflects to the boiler 20 ppm.

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.