

### PURPOSES

**This mixture is particularly intended for conditioning water from Steam generators supplied by softened water.**

The risks incurred when the physico-chemical parameters of water are modified are the following :

- SCALING which results in a decrease of heat exchange which can cause local overheating or defects in the security mechanisms.

- CORROSION (by pitting, by differential aeration, pH range, ...) can be localised both under the water level and in the entire steam system and condensates.

To these two phenomena we can add that of PRIMING (priming of water with steam) that can be the result of faulty heat exchanges, pollution of finished products when there is direct contact with steam, deposits on turbine blades, etc.

It's a phosphate and sulphite based solution that makes it possible to maintain the recommended residual of the boiler ( traditional treatment).

Its usage makes it possible to limit the phenomena of the precipitation of salts in scaling for, and to limit corrosion phenomena by reducing the dissolved oxygen.

Moreover, it protects all the steam network with maintaining a good level of pH.

**CONFORMITY :** It complies in the opinion of AFSSA (French Agency of Health Security of Food) concerning the use of substances in boiler providing steam of water which enter in direct contact with foodstuffs.

**It only contains raw materials approved by the FDA (Food and Drug Administration) legislation paragraph 21 CFR 173.310 concerning all the authorized substances for the treatment of generators where the steam is in direct contact with foodstuffs.**

### BENEFITS

Solution ready to use, without prior dilution.

Injection proportional to the make-up or to the running of the feed-water pump of the boiler by a system of suitable proportioning.

Easy treatment control.

Respect the standards of rejection if used at the recommended quantity.

### INJECTION

The implementation of our mixture will be done through a dosing station proportionate to the make-up water which makes it possible to considerably reduce the time devoted to the implementation of the water treatment of steam generators.

The dose rate depends on concentration in dissolved oxygen in the feed water. This concentration is directly linked to the temperature of water.

The notice mentioned beside present the content of O<sub>2</sub> dissolved according to the temperature of water.

The dose rate will be : 28 mg/mg of dissolved oxygen.

Later, proportion will be adjusted in order to acquire desired PO<sub>4</sub> and SO<sub>3</sub> in boiler, guidelines here after :

- 20 mg/L < Sulphites < 60 mg/L
- 40 mg/L < Phosphates < 60 mg/L

In order to assure a good implementation of the product an analyses kit provided by us can be used. Contact us for further information.

### HANDLING & STORAGE

It is recommended to take customary precautions while handling chemicals (gloves, glasses ...). Consult the Safety Data Sheet (SDS).

**The products must be kept away from frost.**

### CHARACTERISTICS

|          |           |
|----------|-----------|
| Physical | Liquid    |
| Color :  | Colorless |
| Odor :   | Ammonia   |
| pH :     | 6,5 - 8,5 |



### PACKAGING

It is available in 25, 250 and 1000 kg, **non returnable plastic drums.**

For any other packaging please contact us.

| Temperature (°C) | Max. content in O <sub>2</sub> (mg/L) |
|------------------|---------------------------------------|
| 20               | 9,2                                   |
| 30               | 7,6                                   |
| 40               | 6,6                                   |
| 50               | 5,6                                   |
| 60               | 4,8                                   |
| 70               | 3,8                                   |
| 80               | 2,3                                   |
| 90               | 1,6                                   |

**Note : Do not mix the undiluted product with other chemical compounds without consulting us first.**

The information and recommendations contained in this instruction manual are based upon our joint work with our customers and our current knowledge. They are provided merely as an indication and do not constitute an obligation of result. Date : 30/11/2021.

