MULTIPURPOSE CORROSION AND SCALE INHIBITOR JURBYSOFT® 12

Chemical correction is essential for stabilizing pH reaction in the water, for reducing its oxidation and sedimentation abilities. The way of chemical correction depends on chemical parameters, the reaction, used chemicals, correction extent and the way of dozing correction agents.
If the water is used for:

* Cooling – required pH accounts to 7.2 - 9.5

* Food industry purposes - 6.5 - 8.5

* Boiler rooms - 7.0 - 11.0[1]

[1] depending on boiler producers' recommendations

Description

JurbySoft® 12 is a chemical based on alkaline polyphosphates, catalysed sulphite, dispersant and antifoaming agent.
JurbySoft® 12 chemically removes oxygen, neutralizes carbon dioxide, prevents from carbonaceous scale forming, keeps salts solubility at maximum level and forms dispersed sludge, which is easily removed, via blow-down.

Water Treatment Systems

GUARANTEE WATER QUALITY

APPLICATION

JurbySoft® 12 is a complex liquid chemical product for corrosion and scale forming control in low and medium pressure boilers. **JurbySoft® 12** has the following properties:

- chemically removes residual dissolved oxygen;
- neutralizes carbonic gas and adjusts alkalinity to the correct operating rate for minimum corrosion;
- keeps silicic acid compounds solubility at the maximum level, adjusts ratio of the silicic acid nad alkalinity (SiO_2/M) at the required rate, at the same time prevents silicates forming;
- binds hardness salts in feed water, prevents hard carbonaceous scale forming;
- because of effective dispersant, precipitate forms flakes and silt. Salts accumulated in the boiler precipitate in the form of free flowing concentrated sludge which is easlity removed during blow-down;
- limits introduction of free caustic alkalinity (NaOH) and consequently reduces the risk of caustic embrittlement;
- conduces conditions to form and maintain protective film of magnetite on the metal surface;
- maximum temperature of boiler water is 270 °C and pressure is 40 Atm.

ADVENTEGES

- liquid multipurpose chemical product which can be fed directly from the drums;
- does not change boiler water and vapour colour, therefore it can be used when colourless steam is required;
- keeps heat exchangers surffaces clen, maximizes heat transfer and minimizes maintenance;
- safe and easy to handle and use;
- environmental friendly and FDA approved components.

PHYSICAL DATA

Apperance	brown liquid
Active materials	catalysed sulphite, polyphosphates, dispersants, polyacrylates and antifoaming agent
Density (at 20°C)	1.13 +/- 0.05
pH	> 12
Freezing point	- 2°C
Soluble in water in all proportions	

*Due to the fast technology development we reserve the right to change technical data without prior notice
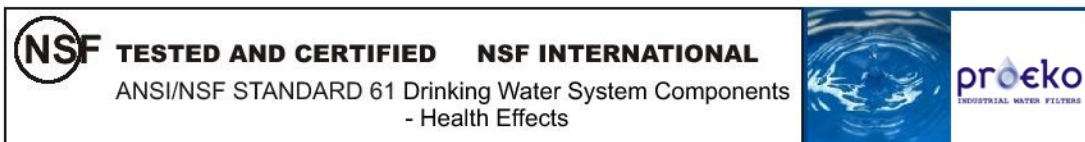
DOSAGE AND FEEDING

Required dose depends on the following parameters: residual hardness, oxygen dissolved in the feed water, required level of alkalinity and phosphates in the boiler water.

Goal:	Dosage JurbySoft® 12
• to reduce 1 g O_2/m^3 in feed water	132 g/m^3
• to increase alkalinity by 10 mg/l $CaCO_3$ (0.2 meq/l)	300/C*g/m^3
• to add 1 mg/l of PO_4 into boilerwater	80/C* g/m^3

* Where C is the concentration rate in the boiler

JurbySoft® 12 should be injected via a dosing pump. The product can be injected into feed line in concentrated or diluted with water form. If deaeration is available, product is fed after deaerator, into section line of feed pump.

For water control following parameters have to be kept at the following levels:

• residue of phosphates (PO_4):	30-60mg/l
• residue of sulphites (SO_3):	20-40 mg/l
• other chemical parameters:	as indicated in boiler's manual.

PACKING AND HANDLING

JurbySoft® 12 is packaged in 20 litre(22 kg), 60 litre(66 kg) or 200 litre(219 kg) plastic drums or 1000 kg containers.

Shelf life in closed package is minimum one year. Use within 4 weeks once opened.

Read Material Safety Data Sheet for detailed handling and storage precautions.

NSF **TESTED AND CERTIFIED   NSF INTERNATIONAL**
ANSI/NSF STANDARD 61 Drinking Water System Components
- Health Effects

proeko
INDUSTRIAL WATER FILTERS