

CORROSION AND SCALE INHIBITOR FOR HARD WATER JURBYSOFT® 83

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 dosing 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 depending on boiler producers' recommendations

DESCRIPTION

JurbySoft® 83 is a liquid multifunctional product based on phosphonates, polyphosphates and dispersants.

JurbySoft® 83 is a complete corrosion and scale inhibitor used in open recirculating cooling water and condensate systems.

PROEKO WATER TREATMENT FOR HOME AND INDUSTRY

95-050 Konstantinow Lodzki , ul. Srebrzynska 5/7

tel: 42 211 20 64, 42 211 20 19 fax: 42 09 33 03

e-mail: proeko@proekojp.pl

www.proekojp.pl

APPLICATION

JurbySoft® 83 is a combination of compounds that is designed to function by several scale inhibiting mechanisms. These include metal ion sequestration, threshold inhibition, crystal distortion and anionic dispersion. It is effective in controlling of scale forming substances such as calcium carbonate, calcium sulfate, barium sulfate and iron and manganese oxides. **JurbySoft® 83** is highly resistant to hydrolytic decomposition even at high temperatures and at pH 6.5 - 8.5.

ADVANTAGES

- stable even at 80°C
- effective corrosion inhibitor
- excellent scale inhibitor suitable for hard water (up to 10 meq/l);
- antifoulant properties maximize heat transfer
- protects against galvanic corrosion in mixed-metal systems and pitting corrosion of ferrous metals
- environmental friendly

PHYSICAL DATA

Appearance	light yellow to pink liquid
Active materials	phosphonates, polyphosphates, dispersants
Density (at 20°C)	1.17 +/- 0.05
pH	7,5 +/- 0,5
Freezing point	- 5°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

JurbySoft® 83 can be fed to the system directly from drums by chemical dosing pumps or diluted with softened water. At first time is necessary to give shock dose to the system.

JurbySoft® 83 is typically dosaged at concentrations of 30 - 120 ppm. The control can be carried out on total phosphorous (PO₄ 3-7 mg/l). The following recommended concentrations are based on the calculated Rynzar Stability Index of circulating water:

Stability Index:	Concentration of JurbySoft® 83 (mg/l)
• 4,3 - 50	50
• 5,1 - 5,5	40
• 5,6 - 6,0	30
• Above 6,0	20

If stability index value is below 4.3 or exceeds 6.5 pH of circulating water can be adjusted most easily by addition of acid or alkali to the product chemical feed tank or to the circulating water.

JurbySoft® 83 is frequently used as a single treatment compound for the industrial water applications previously mentioned. It can often be combined with other compounds to create a "complete package" chemical. It has been formulated with zinc, molybdate, and chromate and other inhibitors to provide excellent corrosion/scale protection of systems containing mild steel.

PACKING AND HANDLING

JurbySoft® 12 is packaged in 25 litre(30 kg), 60 litre(72 kg) and 200 litrowe(245 kg) plastic drums or 1000 kg containers.

JurbySoft® 83 can be stored and handled in stainless steel, polyethylene, polypropylene, teflon and should be stored at temperatures above freezing and protected from excessive heat. Improper handling of this product can be injurious to workers.

Shelf life is one year. Use within 4 weeks once opened.

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

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