

BIOXIN – POLIVAL – VAPORSAN – BIOFOAM

A range of new products to treat boiler's water

NCR Biochemical's officers and technicians have a 25 years lasting experience in this field



, with this series of products, wants to meet the market's needs as regards boiler's water treatment under the technical, environmental and safety point of view.

- Oxygen scavengers, alkalising and antiscaling products to protect steam generators and steam-condensated water circuits for low, medium and high pressure boilers and thermal power plants.
- Specific products, FDA (Food and Drugs Administration) approved, for anticorrosive, alkalising and antiscaling treatment within thermal plants where steam comes into contact with food.

- BIOXIN** : volatile anticorrosive oxygen scavengers based on carbohydrazide or hydrazine
- POLIVAL** : volatile anticorrosive oxygen scavengers and alkalising agents
- POLIVAL S** : antiscaling and internal conditioning agents
- VAPORSAN** : Oxygen scavengers and non volatile antiscaling agents (FDA approved)
- BIOFOAM** : antifoaming agents for boilers and evaporators

A large, stylized logo for NCR Biochemical. The letters 'NCR' are in a bold, white, sans-serif font with a thick black outline, set against a blue background that features a white wave-like graphic. Below 'NCR', the word 'Biochemical' is written in a white, cursive script font.



Boiler's water treatments

BIOXIN – POLIVAL – VAPORSAN - BIOFOAM Series

BIOXIN : *volatile anticorrosive oxygen scavengers*

- Bioxin 24 - Hydrazine based volatile oxygen scavenger and alkalinising agent.
- Bioxin 60 - Carbohydrazide based volatile oxygen scavenger and alkalinising agent.
- Bioxin 120 - Carbohydrazide based volatile oxygen scavenger and alkalinising agent

POLIVAL : *not hydrazinic, anticorrosive and volatile alkalinising oxygen scavengers*

- Polival DH2 - Not hydrazinic volatile alkalinising agent and oxygen scavenger.
- Polival DH3 - Not hydrazinic volatile alkalinising agent and oxygen scavenger.
- Polival DH4 - Not hydrazinic volatile alkalinising agent and oxygen scavenger.
- Polival K8 - Not hydrazinic volatile alkalinising agent and oxygen scavenger.
- Polival SK 848 - Multifunctional product for feeding waters softened by means of a double volatile- non volatile oxygen scavenger, volatile alkalinising agent, antiscaling agent, phosphating agent.
- Polival SK 949 - Multifunctional product for demineralised and osmotised feeding waters with double volatile - non volatile oxygen scavenger, volatile - non volatile alkalinising agent, antiscaling agent, phosphating agent.

POLIVAL : *volatile alkalinising agents*

- Polival GVA - Completely volatile alkalinising agent.
- Polival GVH - Completely volatile alkalinising agent.
- Polival M 21 - Completely volatile FDA approved alkalinising agent (steam in contact with food).
- Polival GV - Steam alkalinising agent – boiler's water dealkalinising product, antiscaling and phosphating agent.

POLIVAL S : *products to control alkalinity and hardness losses inside boilers*

- Polival S 80 - antiscaling product - dispersing product, it removes deposits if it is overdosed.
- Polival S 82 - antiscaling– dispersing– phosphating - alkalinising product, it removes deposits if it is overdosed.
- Polival S 83 - antiscaling– dispersing - phosphating– alkalinising product.
- Polival S 88 - antiscaling– dispersing– very alkalinising phosphating product.

VAPORSAN : *oxygen scavengers and FDA approved oxygen scavengers and non volatile antiscaling products (steam in contact with food).*

- Vaporsan 522 - Not volatile dealkalinising oxygen scavenger.(sulphite)
- Vaporsan 355 - Oxygen scavenger (sulphite)– alkalinising – antiscaling – not volatile phosphating agent.
- Vaporsan 455 - Oxygen scavenger (sulphite)– very alkalinising – antiscaling - not volatile phosphating agent.
- Vaporsan 820 - Oxygen scavenger (sulphite) – antiscaling – dispersing - dealkalinising not volatile product
- Vaporsan 388 - Not volatile oxygen scavenger (erythorbate)
- Vaporsan 389 - Not volatile oxygen scavenger (erythorbate) -alkalinising – antiscaling

BIOFOAM : *antifoaming agent*

- Biofoam 272 - Antifoaming agent for boilers and evaporators. It prevents violent boiling.