

MUNIYAL CHEMICAL

INDUSTRIAL WATER TREATMENT CHEMICALS



Muniyal[®]

COOLING TOWER WATER TREATMENT CHEMICALS

If industrial cooling water remains unprocessed, it can lead to significant issues such as metal degradation and deposit formation in heat exchangers, condensers, and other cooling system components. This frequently causes machinery malfunctions, unexpected operational halts, and productivity declines. You can mitigate metal degradation and deposit formation, ensuring optimal cooling system performance and preventing avoidable interruptions by conditioning cooling water with appropriate chemical solutions.

Muniyal Chemicals provides an extensive selection of MUNICHEM cooling water conditioning agents that optimize water quality efficiently

Combination of polymer & an organo-inorganic formulation of liquid chemicals

MUNICHEM-CC1 / MUNICHEM-CC2: Based on cathodic-anodic corrosion inhibitor. MUNICHEM-CC2 is formulated using Co-Polymer, Zinc Organophosphonate-based chemistry for MS/SS and copper corrosion protection. It is a phosphate-based chemical.

MUNICHEM-CC3: Used to control alkalinity in cooling towers, acting as an alkalinity controller.

MUNICHEM-CC4: A Microbiocide containing quaternary ammonium compound-based biocide.

MUNICHEM-CC5: A penta chloro phenate non-oxidizing biocide in liquid form. It controls algae, fungi, and bacteria. Effective in a pH range of 6.5 to 9.0, it is used for cooling tower treatment.

MUNICHEM-CC6: A biocide designed to control bacteria present in cooling tower water, based on isothiazolin.

MUNICHEM-CC7: A dispersant that controls the deposition of PO_4 , SO_4 , SiO_2 , and calcium scales.

MUNICHEM-CC8 / MUNICHEM-CC9: Nitrite or molybdate-based liquid formulation chemicals. Acts as a pH buffer and yellow metal corrosion inhibitor, used in cooling systems like DG sets and chillers.

MUNICHEM-CC10: A bromine-based biocide that works more effectively under alkaline conditions.

Action & Benefits

1. Protects Against Corrosion: Prevents system damage and unexpected downtimes with powerful corrosion inhibitors.

2. Flexible Dosage Control: Adapts to varying water compositions for efficient and customized treatment.

3 Cleans Existing Deposit: Removes accumulated deposits, ensuring a cleaner and more efficient cooling system.

4. Easy to Use Liquid: Ready-to-use liquid formulation for hassle-free application and precise dosing.

5. Non-Polluting: Biodegradable and environmentally friendly, ensuring safe discharge.

6. Easy to Monitor: Simplifies tracking with an all-in-one formulation for effective system management.

7 Technical Service – Backed by expert support for optimal performance and system longevity.

BOILER PLANT WATER TREATMENT CHEMICALS

The MUNICHEM range of boiler water treatment chemicals consists of a blend of polymers and organo-inorganic treatment solutions. This range includes oxygen scavengers, scale and deposit inhibitors, corrosion preventatives, sludge conditioners, anti-foaming agents, alkalinity regulators, as well as a fully organic, single-product treatment for boiler water and condensate corrosion control.

Combination of polymer & an organo-inorganic formulation of liquid chemicals

MUNICHEM-BTC1 is used for high-pressure IBR boiler treatment chemical. It contains oxygen scavenger. It is formulated for the treatment of boilers using soft or demineralized feed water. It is hydrazine (H_2N_2) based chemical.

MUNICHEM-BTC2 is used for IBR boiler treatment chemical. It contains oxygen scavenger. It is formulated for the treatment of boilers using soft or demineralized feed water. It is sulphite (Na_2SO_4) based chemical.

MUNICHEM-BTC3 is used for water tube boilers. It contains a corrosion inhibitor. It is formulated for the treatment of water tube boilers using soft or demineralized feed water. It is phosphate (PO_4) based chemical.

MUNICHEM-BTC4, MUNICHEM-BTC7 are single-product liquid formulations for IBR boilers. They are formulated for the treatment of IBR boilers using soft or demineralized feed water. They contain a corrosion inhibitor, oxygen scavenger, pH booster, and sludge conditioner.

MUNICHEM-BTC5 is a single-product liquid formulation for IBR boilers. It is formulated for the treatment of IBR boilers using soft or demineralized feed water. It contains a corrosion inhibitor, oxygen scavenger, and pH booster.

MUNICHEM-BTC6 is an alkaline formulation used to increase the alkalinity of boiler feed water. It is used to reduce corrosion of feed water tanks, lines, and pumps.

MUNICHEM-BTC8 is used for the condensate corrosion inhibitor.

MUNICHEM-BTC9 is a single-product liquid formulation for IBR boilers. It is formulated for the treatment of IBR boilers using soft or demineralized feed water. It is amine-based.

Action & Benefits

- 1. Protects Oxygen Pitting:** Rapid oxygen scavengers prevent oxygen-related corrosion.
- 2. Corrosion Inhibition:** Strong inhibitors safeguard against acidic deterioration and unplanned shutdowns.
- 3. Scale Prevention:** Anti-scalants prevent scale buildup, enhancing heat transfer efficiency.
- 4. Energy Saving:** Maintains boiler cleanliness, optimizing heat transfer and reducing energy losses.
- 5. Easy to Use:** Liquid formulations ensure flexible and precise dosing for various operations.
- 6. De-Scaling:** Effectively removes hardness and corrosion residues from boilers and heat exchangers.

REVERSE OSMOSIS MEMBRANE TREATMENT

Application of these products ensures reliable output, improved recovery, protects membrane from damages, and accelerates reverse osmosis.



Product Name

- ROC1 (LOW SILICA LOW TDS)
- ROC2 (HIGH SILICA HIGH TDS)
- ROC3
- ROC4

Application

- RO ANTISCALANT
- RO ANTISCALANT
- MEMBRANE CLEANER
- MEMBRANE CLEANER

SERVICE CHEMICAL

De-Scaling Chemicals MUNICHEM-SC3:

Designed to remove scaling & corrosion products for all types of boilers. It is a liquid formulation to remove hardness & low-concentrated silica scales that can be removed offline by circulating. It's a dilute solution of the chemical. It is a balanced formulation of hydrochloric acid, dispersant, wetting agents, & corrosion inhibitor. FEATURES

FEATURES

1. POWERFUL DESCALENT MUNICHEM-SC3

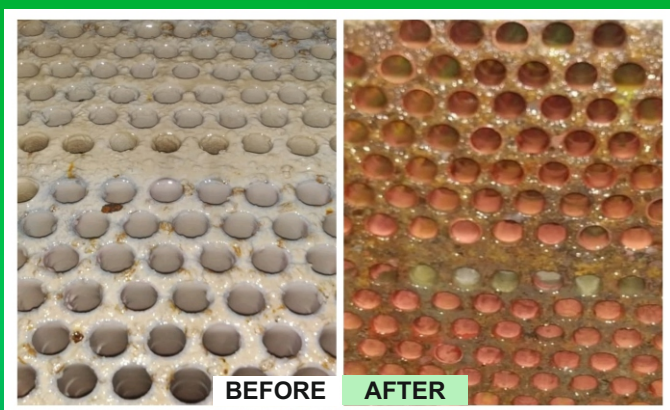
Safe & non-corrosive for descaling Dissolves hardness scales quickly & completely

2. SAFE FOR METALS MUNICHEM-SC3

Contains a synthetic polymeric corrosion inhibitor Forms a protective film on the parent metal surface to prevent acid attack

3. DETERGENT ACTION MUNICHEM-SC3

Contains a wetting agent that emulsifies oil and grease present in deposits Loosens dirt, silt, etc., which can be removed during water flushing



ETP CHEMICALS

Flocculants

Muniyal Chemicals offers MUNIFLOC range of flocculants for effluent and wastewater treatment in the following applications:

Clarification Aid for Waste Water Treatment

We have a wide range of products for this application. A suitable product is to be selected after a proper jar test. MUNICHEM representative will guide the selection of the suitable product.

Raw Water Clarification

MUNIFLOC - 52

It is most suitable for the removal of turbidity and suspended solids from canal water and raw water used for the process.

Sludge Dewatering

MUNIFLOC - 43

We have a wide range of products for this application. A suitable product is to be selected after a jar test. MUNICHEM representative will guide the selection of the suitable product.

Colour Removal

MUNIFLOC - 24

Coagulants

1. MUNICOAG 24A
2. FERRIC ALUM
3. FERRIC CHLORIDE

Defoamers

MUNSEF-ET: Defoamer for ETP

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