



# AKWAKARE™

— WATER TREATMENT CHEMICALS —



# ABOUT US

**JAY Chemical Industries Private Limited (JCIPL)**, established in 1967, headquartered in Ahmedabad, Gujarat, India, is a diversified chemical manufacturing company with nearly six decades of excellence. With a strong global presence, JAY group delivers a wide range of solutions across dyes, dyes intermediates, textile auxiliaries, digital printing inks, construction chemicals, speciality chemicals and water treatment solutions under its dedicated brand, "AKWAKARE"

## AKWAKARE Water Treatment Portfolio

AKWAKARE delivers high-performance water and wastewater treatment chemicals for industrial and utility applications. Our solutions are engineered to enhance system efficiency, ensure regulatory compliance, and support sustainable water management practices.

### Key Applications

- **Boiler Water Treatment Chemicals**  
Oxygen scavengers, pH adjusters, metal passivators, and phosphate-based treatment programs
- **Cooling Water Treatment**  
Open & Closed Recirculating Systems
- **RO & Membrane Treatment Chemicals**  
Antiscalants, Membrane cleaners for effective pre-treatment
- **Wastewater & Process Water Treatment**  
Polyelectrolytes for clarification, sludge handling, and process applications

JCIPL operates advanced testing and R&D facilities, including a fully equipped water analysis laboratory at GIDC Vatva, enabling in-depth evaluation of water and effluent quality and chemical performance at both laboratory and pilot scale.

AKWAKARE places strong emphasis on customised, application-specific solutions, supported by experienced technical professionals and on-site field support, ensuring optimized treatment programs tailored to the unique needs of industry.

Due to rapid industrial growth and increasing global demand, water scarcity has become a critical challenge. AKWAKARE empowers industries to comply with increasingly stringent environmental regulations by delivering high-performance chemicals that ensure wastewater is treated to the highest standards. From national initiatives such as the **Jal Jeevan Mission** to advanced **Zero Liquid Discharge (ZLD)** systems, AKWAKARE delivers efficient, reliable solutions that convert water challenges into sustainable industrial performance.

### Certifications & Compliance

Our products are developed with a strong focus on **safety, quality, and sustainability** and are:



These certifications reinforce our commitment to responsible chemistry and global environmental standards. For more information on water treatment chemicals and technical queries please email us at: [salescowtc@jaychemical.com](mailto:salescowtc@jaychemical.com)

## Cooling Water treatment solutions :

- Comprehensive product portfolio to control corrosion, scaling, biological growth, and organic fouling in both open and closed circulating systems
- Proven solutions for cooling systems using ETP/STP-treated make-up water, supporting water conservation initiatives
- Specialized treatment program designed for low-salinity make-up water and high HTI cooling systems
- Acid-free cooling water treatment program developed specifically for power plant cooling water systems

Product Name	Application	Description
AKWA CC 8101	Corrosion Inhibitor for MS / CS	A synergistic blend of Anodic & Cathodic Corrosion Inhibitors for an Open Circulating system. Highly stabilize formulation specially designed to provide corrosion protection to MS / CS along with polymeric dispersant.
AKWA CC 8201	Corrosion Inhibitor for MS / CS	This product is specially developed to prevent tubercles formation and pitting corrosion on MS. It will give corrosion protection in Low Hardness water, it doesn't require Hardness for functioning. It can be used in once through system too.
AKWA CC 8301	Corrosion Inhibitor for Copper & Copper Alloy	It is used to control the Corrosion of Copper and its Alloy in an Open / Closed circulating cooling water system.
AKWA CC 8401	Corrosion Inhibitor for high Chloride water	Effective corrosion control for high Chloride water. It will control pitting corrosion mainly. It can be used alone or combined with other corrosion inhibitors.
AKWA CC 8104	Scale / Corrosion Inhibitor	It is a synergistic combination of Corrosion & Scale inhibitor. It is a Single product for the Medium to Small Cooling water system.
AKWA CD 7101	Antiscalant / Dispersant	It will act as a Phosphate stabilizer, providing a cleaner surface for metal passivation. Also control deposit of Ca - Salts in Open Cooling water system.
AKWA CD 7203	Antiscalant / Dispersant	Phosphate Stabiliser and functioning in presence of IRON. Control Phosphate, Ca-Salt deposition effectively in high HTI - Open Circulating Cooling water system.
AKWA CA 6101	Scale / Corrosion Inhibitor for Power Plant	This product is specially designed for Power Plant treatment. It is a single product that will take care of Corrosion / Scale in the Power Plant Cooling water system where the Condenser Tube will be SS, Cu-Ni, Titanium.

## Cooling water treatment solutions :

Product Name	Application	Description
AKWA CB 4001	Biodispersant	It disperse biomass from the Heat transfer surface and improve the Heat transfer. It doesn't have Bacterial-killing property but penetrates the biofilm and improve the killing efficiency of Oxidizing & Non-Oxidizing Biocides.
AKWA CB 5101	Non-Oxidizing Biocide (Algaecide)	It is used to control Algae growth as well as Slime formation in Open Circulating system. It is a broad - spectrum biocide and is commonly used for all types of water.
AKWA CB 5102	Non-Oxidizing Biocide	It is broad spectrum biocide and effectively functions on wide pH range. It can be used for an open recirculating system.
AKWA CB 5201	Non-Oxidizing Biocide	It greatly controls Slime formation as well as provides excellent control over Nitrifying Bacteria.
AKWA CB 5501	Non-Oxidizing Biocide	This biocide tremendously controls Slime formation as well as excellent control over SRB (Sulfate Reducing Bacteria).
AKWA CB 9001	Oxidizing Biocide (ClO <sub>2</sub> )	It is a precursor for Chlorine Dioxide, it is widely used in Fertiliser / Refinery / Petrochemicals / Power Plants where chances of contaminations are high OR Cooling water system that operates at Alkaline pH.
AKWA CC 8001	Corrosion Inhibitor for Closed Cooling system	This product is used as a Corrosion inhibitor for the Closed Cooling system. It can be used for a Hot / Chilled water system. It gives excellent corrosion control on MS / CS / Copper. It is effective in Chloride content water too.
AKWA CC 8002	Corrosion Inhibitor for CaCl <sub>2</sub> Brine Chiller	It is an Organic Cathodic Corrosion Inhibitor and an excellent Chelating Agent. It is specially designed for Brine Chiller where CaCl <sub>2</sub> Brine is used as a Refrigerant.
AKWA EA 6102 / EA 6103	MEE / Evaporator Antiscalant	Antiscalants for MEE or Evaporator applications, based on the Feed quality we will recommend a suitable product. It will effectively control scale in high TDS Feed at high Heat Flux Area.
AKWA HA 1000	pH Adjustment	This product controls high pH caused by Carbonate-Bicarbonate Alkalinity and maintains film forming polymer activity.

## RO Membrane Chemicals :

- Technically optimized solutions based on detailed RO system surveys and membrane manufacturer guidelines
- High-performance antiscalants for LSI > +3.0 and silica control up to 300 ppm
- Advanced membrane cleaners for removal of colloidal, organic, biofouling, sulphate scale, silt, metal complexes, and CaCO<sub>3</sub>
- Membrane-safe, non-oxidizing biocides for effective microbial control
- NSF-certified products for Food & Beverage applications
- ZDHC-certified solutions for Textile and Leather industries

Product Name	Application	Description
AKWA RA 6102	Membrane Antiscalant	Antiscalant for RO, where feed water has high TDS, Hardness. It effectively controls scale (CaCO <sub>3</sub> & CaSO <sub>4</sub> ) in Sea water & brackish water RO applications and other high TDS water.
AKWA RA 6401 / AKWA RA 6402	Membrane Antiscalant (Hardness & Metal Oxide inhibitor)	This product is suitable for high hardness, silica and metal oxide. Especially designed for waste water RO or worse water quality.
AKWA RA 6501	Membrane Antiscalant (Silica inhibitor)	This product is suitable for high Silica, metal oxide, and hard water. This product controls Silica up to 300 ppm in RO Reject. It is <u>NSF and ZDHC approved product</u> .
AKWA RA 6601	Membrane Antiscalant	This product is suitable for High TDS/ Hardness/ Metal Oxide contained in RO Feed water. It also performs well in Alkaline pH and high recovery systems. It is <u>NSF and ZDHC approved product</u> .
AKWA RC 5011 / AKWA RC 5012	Alkali Cleaner for (RO Membrane)	It is an Alkali cleaner and cleans Colloidal/ Silt/ Organic – fouling and CaSO <sub>4</sub> scaling effectively. It forms a soluble complex with bi-valents and removes them from the system. AKWA RC 5012 is <u>NSF-approved product</u> .
AKWA RC 5021 / AKWA RC 5022	Acidic Cleaner for (RO Membrane)	It is an Acidic cleaner, it cleans CaCO <sub>3</sub> / MgCO <sub>3</sub> – Scale and IRON fouling from the system. AKWA RC 5022 is <u>NSF-approved product</u> .
AKWA CB 5301	Membrane Cleaner (Bio Cleaner)	It is a non-oxidizing biocide and suitable for composite polyamide membranes. It can be used for membrane CIP and also can be used for normal treatment in STP / ETP - recycled RO plant. It reduces the growth of microbes on the membrane surface and thus reduced CIP frequency.

## Boiler Water treatment solution :

- Solutions for low, medium, and high-pressure boilers
- Tailored programs for complex steam–condensate systems
- Volatile & non-volatile oxygen scavengers
- Boiler feedwater & condensate treatment
- Phosphate sludge conditioning & cleaning chemicals
- NSF-certified products for process industries

Product Name	Application	Description
AKWA BL 2101	Hardness Stabiliser for Low / Medium High Pressure Boiler water	This product stabilises the hardness of the boiler water by precipitation, forms sludge, and removes it through boiler blowdown. It effectively prevents mineral scale deposition on the heating surface of the waterside.
AKWA BL 2211	Oxygen Scavenger (Low & Medium Pressure Boiler)	This is the most suitable oxygen scavenger for low & medium pressure boiler. It will form a protective layer (blackish) on the metal surfaces rapidly. It is a non-volatile oxygen scavenger.
AKWA BL 2100	Oxygen Scavenger and Hardness stabiliser (Low & Medium Pressure Boiler)	It is a single product that combines an Oxygen Scavenger and Hardness Stabiliser for low- and Medium-Pressure Boilers. This product is <u>NSF approved</u> and can be used in the Food and Beverage Industries.
AKWA BL 2231	Oxygen Scavenger (High-Pressure Boiler)	It is hydrazine free oxygen scavenger, it is having higher distribution ratio among all oxygen scavengers. It has the fastest reaction time than any other oxygen scavenger.
AKWA BL 2241	Oxygen Scavenger (Medium & High Pressure Boiler)	It is hydrazine free oxygen scavenger, it is an excellent metal passivator. It can be used for boiler preservation also.
AKWA BL 2251	Oxygen Scavenger (Medium & High Pressure Boiler)	It is a derivative of hydrazine, it acts like hydrazine without the same hazards of hydrazine. It doesn't contribute to the boiler solids.
AKWA BL 2301 / 2302 / 2303	Boiler Feed & Condensate Corrosion treatment	It is a combination of Amines, used to control carbonic acid corrosion. Selected Amines are able to protect the entire steam generating system.
AKWA BL 2300	Alkali builder (Low & Medium Pressure Boiler)	It is an Alkali builder, specially used for Low to Medium-Pressure Boilers to achieve the desired Alkalinity and pH in Boiler water. This product is <u>NSF approved</u> and can be used in the Food & Beverage Industries.

## Polyelectrolytes :

- Raw water clarification for industrial and municipal use
- RO pretreatment including coagulation and flocculation
- Color removal in denim and cotton dyeing processes
- Sludge dewatering for efficient waste handling
- De-oiling in refinery and petrochemical operations
- Comprehensive applications for CETP, STP, and industrial ETP systems

Product Name	Application	Description
AKWA PA 801	Organic Flocculant	It is an Anionic powder-based product, especially used for Alkali & Mining industries. It improves the floc formation for faster settling rates, increased sludge compaction, and improves the supernatant quality.
AKWA PA 802 PA 802A/PA 802B	Organic Flocculant	It is an Anionic powder-based product, used for water clarification along with a Cationic coagulant. Widely used in RO pretreatment, ETP, etc. It is a <u>ZDHC approved product</u> .
AKWA PA 803 / PA 803A	Sludge treatment	It is a Low-Anionic Powder-based product. It works effectively as a Sludge Dewatering, especially for Chemical Sludge.
AKWA PC 502	Organic Coagulant - Color removal	It is a Cationic liquid-based product, used for the color-removal application and as a DOPE, a color precipitant in Sugar process. It also partially / fully replacement of PAC / Alum / FeCl <sub>3</sub> in water clarification.
AKWA PC 402	Organic Coagulant	It is a Cationic liquid-based product widely used for drinking water, and wastewater applications. Perform well over a wide pH range, and perform at lower dosages thus reducing overall treatment cost, reduce sludge generation.
AKWA PC 602	Organic Coagulant - Color removal	It is a cationic liquid-based product, specifically useful for the removal of color from high coloring wastewater of textile mills, dyes & pigment industries, printing & paper industries.
AKWA PC 801	Inorganic Coagulant	It is an inorganic cationic coagulant, which can be used in case of high organic.
AKWA PC 802	Cationic Coagulant - Blend	Blends can be used as de-oiling polymer electrolytes (DOPE) in the petrochemical industries and refineries. It can be also used for color removal and flocculation.

## Polyelectrolytes :

Product Name	Application	Description
AKWA PC 710	Sludge treatment	It is a High density, high molecular weight cationic powder-based product. It works effectively as a Sludge Dewatering, especially for Biological Sludge. It is a <u>ZDHC approved product</u> .
AKWA PC 708	Sludge treatment	It is a Medium density, high molecular weight cationic powder-based product. It works effectively as a Sludge Dewatering, especially for Biological Sludge.
AKWA DF 100	Silicone-based Defoamer	It is a concentrated emulsion-based product. Most cost-effective and efficient for preventing and controlling foam in ETP/ MEE etc.
AKWA 615 COAG	Inorganic Coagulant	It is a high performance coagulant designed for waste water treatment.





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# FULL SPECTRUM SOLUTION FOR WATER TREATMENT APPLICATION



**Boiler Water Treatment**



**Cooling Water Treatment**



**RO Membrane Treatment**



**Waste Water Treatment**