

Technobrief

Making water work for the Food & Beverage Industry



For many years, ImproChem has provided sustainable solutions to help customers around the continent address some of the world's most pressing challenges. And today, ImproChem, the Water, Energy & Air Solutions subsidiary of AECI continues that commitment.

We are a forward-thinking and thoughtful leader in developing water reuse, wastewater treatment, and water process solutions. We assist our customers in operating more efficiently and profitably while reducing their environmental footprint.

Our goal is to help industries thrive and communities prosper. Addressing Today's challenges, water is one of the most widely used raw materials in the food and beverage industry. Maintaining its quality is a critical task at every stage of production, including cleaning, boiling, washing, cooking, fermenting, evaporating, sterilizing and pasteurizing. Processing operations also require special attention to control problems like deposits, corrosion, foaming and bacterial growth, and to facilitate dewatering, clarification, off-line cleaning, and other procedures.

Strict government regulations apply to water quality throughout the plant, and treatment products need to be approved for primary and secondary direct food contact applications. At the same time, compliance with increasingly stringent effluent discharge regulations must be maintained. ImproChem understands that the food processing and beverage industry has a diverse range of water treatment needs which require treatment programs to help ensure that expensive capital equipment runs trouble-free and at peak efficiency, to reduce operating costs through water and energy conservation, and to comply with federal, regional, and local government regulations.

Driving Financial and Environmental Performance

We understand the challenges and recognise the opportunities of the food and beverage industry. As a strategic business partner, ImproChem can provide a complete set of chemical and equipment solutions to help manage and improve water resources. From reduced water usage to increased productivity, we deliver the results to drive our customers' performance—financially and environmentally. We work with our customers on various value generating projects, looking at ways to add value to their operations by using ImproChem technology.



Technology and Solutions

ImproChem is one of the continent's premier suppliers of water and process treatment programs for both large industrial plants that produce sugar, starch, and ethanol in bulk quantities and food manufacturing plants involved in processing, canning, freezing, and bottling operations. Our expertise is derived from the depth and breadth of our advanced chemical and equipment technology, our systems and applications expertise and extensive industry experience. These plant-wide water and process treatment solutions are brought to food and beverage plants worldwide:

- Utilities solutions that include advanced GE chemical technology for boiler and cooling systems, including the newly launched SOLUS™ and FuelSolv™ treatment programs for boilers and the revolutionary GenGard™ range of scale and deposit control chemicals for open recirculating cooling systems, to improve plant productivity safeguard assets and improve energy efficiencies.
- Ingredient water solutions – from Chlorine Dioxide to microfiltration and Reverse Osmosis, ImproChem's Hypersperse™ and Kleen™ treatment programmes, including Argo Analyser™ selection software for maintaining and restoring optimum Reverse Osmosis membrane performance. Complete suite of on-line and off-line monitoring solutions and knowledge management systems, such as im-PROSERVE, TrueSense Online, Onvida Biomonitor and PaceSetter Platinum to optimize performance and conserve resources.
- A complete portfolio of food process chemicals, including the FoodPro™ range of chemicals to improve operations such as deposit and corrosion control, biocides, foam control, improved solids recovery, viscosity modifiers, enhanced clarity and products specially designed for offline cleaning.
- Wastewater management and water recycling: Integrated wastewater management and water recycling solutions for water recovery, treatment and recycling. ImproChem is a continent leader in GE Membrane BioReactor solutions for the food industry.
- Food process membranes and electro dialysis provide advanced solutions for food process separation, concentration, purification, acidification or de-acidification.
- Industrial Hygiene plays an important role in all Food & Beverage plants. ImproChem offers a wide range of Industrial hygiene solutions that include but are not limited to CIP Bottle washing and Chain lubrication. These offerings includes our SUDGLO, SUDBRITE, SUDBAK, FerroQuest™ and the newly developed SUDGLIDE, Semi Dry Lube product ranges.
- Sterilizer and pasteurizer treatments to keep food packages and process equipment free of deposits, provides microbiological control, and protects equipment from scale and corrosion.
- Odour Control with our ProSweet™ range of treatments address objectionable odours in a wide range of applications.
- Specialised Laboratory Services & Supplies from our Johannesburg head office in South Africa. We offer full Chemical, Microbiological and Process screening facilities. We are also an authorised distributor of Palintest analytical instruments and reagents and can offer Legionella Risk Assessments and test kits for on-line microbiological monitoring as well as ATP for instantaneous on-site measurement.





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