



Chemical  
Technology  
Xperts



# 1970

Over five decades  
in the chemical industry

# 28,000+

Clients served globally

# 600+

High performance  
chemicals



## Xperience

Chemtex acquires a vast experience of over five decades, with research and development, production and supply of speciality chemicals. This outreach enables us in getting a considerable market share with better support to our valued customers.



## Xcellence

Knowledge and innovation in speciality chemicals has helped Chemtex achieve market leadership. With more than 600 high performance chemicals and over 3000 variants, we are able to extend expert technical advice to mitigate crisis.



## Xpertise

Excellence perfectly explains our success story. With over 28000 clients worldwide, the company has been on a steady growth curve. Chemtex is, to many, chemical technology par excellence.

## Certifications & Approval





## From the Chairman's Desk

The name Chemtex depicts Chemical Technology Experts. Over the past 50 years, Chemtex has come a long way in contributing to the global speciality chemicals requirement. As a company, we are committed to the overall social and economic progress. Our rapid growth in the recent years is leading to a promising future.

Our vast range of chemicals cater to various industrial sectors. It is appropriate to say

'there is a bit of Chemtex for every Industry.'

**R.G. Karnani**  
Founder Chairman

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# Oil & Gas Chemicals

for Oil Exploration, Refinery, Petrochemicals



Oil fields employ drilling and dewatering polymers for enhanced oil recovery, reduced microbial induced corrosion. Oil refineries require use of demulsifiers, corrosion inhibitors, oxygen scavengers for high quality fuel and petrochemicals



## Upstream

### Drilling and Mud Chemicals

- Drilling Bactericide
- Drilling Detergent
- Defoamer
- Polyol
- PHPA (Low Temperature)
- XC-Polymer
- EP-Lube

### Production Chemicals

- Oil & Gas Corrosion Inhibitor
- Hydrogen Sulphide Scavenger
- Oxygen Scavengers
- Oil Soluble Demulsifier
- Wax Inhibitor
- Flow Improver
- Pour Point Depressant

### Well Simulation Additives

- Acid Corrosion Inhibitors
- Mutual Solvents

### Water Injection Chemicals

- Bactericide
- Water Soluble Corrosion Inhibitor
- Scale Inhibitor

## Midstream

### Crude Tank Farms

- De-watering Agent
- Crude Tank Cleaner and Sludge Remover
- Settling Agents
- Degassing Chemicals

### Pipeline Chemicals

- Crude Line Corrosion Inhibitor
- Hydrotesting Corrosion Inhibitor
- Pipeline Cleaning Agent
- Flow Improvers
- Scale Inhibitors
- Oxygen Scavengers
- Viscosity Reducer
- Wax Dispersant / Wax Inhibitor

## Downstream

### Primary Units

- Antifoam
- Neutralizing Amine
- Overhead Corrosion Inhibitor
- Antifoulant

### Secondary Units

- DHDT (HYDROTREATING)
  - Antifoulant
  - Corrosion Inhibitor
- FCCU
  - Metal Passivator
  - Corrosion Inhibitor
- DCU
  - Coker Antifoam
  - Corrosion Inhibitor
- VISBREAKER
  - Defoamer
  - Corrosion Inhibitor
  - Asphaltic Inhibitor
  - Antifoulant

### Auxiliary Units

- Merox Unit
  - Hydrogen Sulphide Scavenger
  - Antifoam
- Amine Treating Unit
  - Corrosion Inhibitor
  - Antifoam
- Sour Water Stripper
  - Demulsifier
  - Antifoulant
- ▣ Finished Fuel Additives
  - CFPP Improver
  - Octane Booster
  - Lubricity Improver (Diesel / Fuel)
  - Wax Inhibitor

## Hydrotesting Corrosion Inhibitor

### PROTODIN HT3

CMFRI certified nontoxic to marine life as per OECD 403 guidelines

Pipeline and tank hydrotesting corrosion inhibitor with oxygen scavenger for mild and carbon steel in fresh/ saline water. Can be used with ALSTACIDEC W30 non-oxidizing microbiocide to control microbial growth and ALSTA-GLO for leak detection (dye).

# Water Treatment Chemicals

for Boilers, Cooling Towers, RO, Potable, Effluent Treatment, Desalination



Water treatment incorporates the use of superior grade chemicals for boilers, cooling towers and closed circuit systems, wastewater and effluents, RO systems, collectively regarded as processes that aid in making water more acceptable for its desired end use, that may include industrial, drinking, institutional, or municipal



## Polyelectrolytes (Flocculants & Coagulants)

Polyelectrolytes are organic polymers based on polyacrylamides of various molecular weight and ionic charge that finds application in Flocculation, Sludge Dewatering, Paper Making, Sugar Juice Clarification, deo settling, dissolved air floatation etc. in following industries:

Pulp & Paper	Fertilizers	Process Industries
Sewage Treatment	Cement	Petroleum
Sugar Processing	Ceramics	Pharmaceuticals
Mining & Metallurgy	Coal Washery	Iron Ore Processing
ETP/ CETP	Potable Water	etc

### ➤ Cationic Polyacrylamide

**ALSTAFLOC 155 / ALSTAFLOC 155X** Medium and high molecular weight cationic polyelectrolyte for dewatering of organic sludge from pharma and biotech wastes, papermaking, mechanical industry, municipal effluents

**ALSTAFLOC 155XX** Paper retention aid and organic waste separation in food, dairy and pharma

**ALSTAFLOC 150 DWPE** (Dewatering Polyelectrolyte) for solid liquid separation process. Finds use in water clarification, dissolved air floatation, thickening

**ALSTAFLOC 150L** Liquid DWPE Cationic polymer

### ➤ Nonionic Polyacrylamide

**ALSTAFLOC 50** Non-ionic polyelectrolyte powder finds use in paper industry in Krofta plant and ZLD.

### ➤ Anionic Polyelectrolyte (APAM)

**ALSTAFLOC 934 / ALSTAFLOC 60 / ALSTAFLOC 40** Powder PAM of low and medium molecular weight for direct filtration processes for settling of inorganic suspended solids, effluent water treatment for municipal, agrofoodstuff, dyeing industries

**ALSTAFLOC 107 / ALSTAFLOC 108** Anionic polyacrylamide of high and ultra high molecular weight for settling of inorganic suspended solids in chemical, food industry, textiles, mining, oil drilling, papermaking industries

**ALSTAFLOC 934L** Anionic polyacrylamide in liquid formulation for settling of inorganic suspended solids for papermaking, chemical and mechanical industry, and treatment of wastewater from municipal and textile industries

### ➤ Inorganic Polymer

**PAC** (Poly Aluminum Chloride) Powder and Liquid for primary coagulation of wastewater, ETP and paper

**ALSTAFLOC PH47/49** Coagulant for Water Treatment

### ➤ Organic Polymers

**ALSTAFLOC PD40** PolyDADMAC based primary organic coagulant and charge neutralizer

**ALSTAFLOC DC90** Quaternary Polymer for colour removal in textiles, paper and pulp industries

**ALSTAFLOC T** Organic polymers with two or more primary amine groups for coagulation and charge neutralizations. Reduces turbidity. Safe for potable water treatment

**ALSTAFLOC 155L** DOPE (De-Oiling Polyelectrolyte) for oil removal from oil fields and refinery water

## Swimming Pool Chemicals

**POOL CIDE** – Chlorine-free Algacide

**POOL CHLOR** – Tri Chloro Cyanuric Acid 90 (TCCA 90)

**POOL CLEAR** – Swimming Pool Water Clarifier

**POOL WASH** – Scale remover and tile cleaner

**POOL BUILD** – pH Builder

**POOL DROP** – pH Reducer





## RO Chemicals

RO chemicals ensure reverse osmosis plants and desalination plants operate at peak performance

RO chemicals enhance operational efficiency, optimize membrane life expectancy and reduce total costs

### Antiscalants

**ALKRO PC191** Super-threshold membrane RO antiscalant minimizing risk of scaling of supersaturated salt solutions

**ALKRO AS80** General purpose low pH RO antiscalant controlling precipitation of sparingly soluble salts

**ALKRO AS90** High pH RO antiscalant with organic dispersants reducing colloidal iron fouling and scaling

**ALKRO HS40** Low pH RO antiscalant specifically designed for silica scaling with effective silica control up to 325 ppm

**ALKRO PC510** High pH RO antiscalant for high silica water in stress conditions such as DSRO (Desalination RO Plants)

### Membrane Cleaners and Disinfectants

**ALKRO CL21** Low pH RO membrane cleaner for RO/UF/NF membranes by dissolving organic and mineral deposits, even iron scaling and metal hydroxide deposits

**ALKRO CL27** High pH RO membrane cleaner for contaminants like oils, organic compounds, biofilms from RO/UF/NF membranes, even imparting efficacy to biocides

**ALKRO BC15** Peracetic Acid based Oxidizing Membrane Biocide for RO/NF/UF membranes. Chlorine free, safe for potable RO systems, with a broad-spectrum efficacy

**ALKRO BC51** Non-oxidizing microbiocide composed of 20% dibromo-acetonitrile, safe for potable RO systems. High efficacy rate for a broad spectrum of microorganisms

### Packaged Drinking Water Chemicals

#### Minerals and Additives

**SODIUM BICARBONATE** CAS No. 144-55-8

**POTASSIUM BICARBONATE** CAS No. 298-14-6

**MAGNESIUM SULPHATE** CAS No. 7487-88-9

**ALKRO AB** All in one mineral pack

**ALKRO ABT** Alkalinity builder without increasing TDS

#### Potable Water Disinfectant

**ALSTASAN SILVOX WT** Silver hydrogen peroxide based potable water disinfectant. Can be used for disinfection of Membrane and water treatment plant such as ACF, Media Filter, etc. Alstasan Silvox WT is FDA approved for drinking water upto 25ppm dosage. It successfully replaces Sodium Hypochlorite or chlorine and still being odorless. Does not require dechlorination.

#### Jar Washing Chemicals

**ALSTACLEAN PC** Acidic Internal jar washing chemical to remove organic foulants, minerals from insides

**DETPOL B-300** External jar washing liquid. Medium foaming, neutral pH product. Can be used without gloves

**ALSTACLEAN CP90** Heavy-duty alkaline cleaner for removing adhesives and stickers

## Cooling Tower Chemicals

Cooling tower chemicals keep a check on issues of scaling, bio-fouling. The cooling water side of the heat exchangers fouled with deposits and corrosion cause high power consumption or system failure

### Scale and Corrosion Inhibitor

ALSTACOOOL AS10/11 Super-threshold antiscalant preventing rusting on ferrous metals, copper, brass, cupro-nickel and other alloys

ALSTACOOOL Z30 Zinc phosphate based mild steel corrosion inhibitor/ antiscalant

ALSTACOOOL CN26 Azole based yellow metal CI with Antiscalant

ALSTACOOOL CN27 Zinc molybdate-azole based super effective corrosion inhibitor

ALSTACOOOL CN28 Molybdate based antiscalant with corrosion inhibitors for closed loop systems

ALSTACOOOL CT15 Evaporative and atmospheric condenser treatment and cooling tower fills cleaning chemical

### Dispersant

ALSTACOOOL DP80 Polymeric dispersant for open recirculating water systems

ALSTACOOOL DP40 Silt and clay dispersant that minimizes sludge formation in pipelines

ALSTACOOOL D25 Terpolymer based polymeric dispersant designed to control scale deposition, silt and clay deposits

### Descalant and Passivators

ALSTASCALE DS85 Heavy-duty condenser descalsant for hard scales, metal oxides, silica scales. Contains corrosion inhibitor

ALSTASCALE SR60 Silica scale removing additive

ALSTASCALE PS20 Passivation chemical that neutralizes and passivates metal surfaces post-acid descaling

### Cooling Water Biocide and Microbiocide

ALSTACIDE CW25/26 Bactericide and algacide for controlling microbial growth and algae blooms in recirculating water in cooling towers. Non-oxidizing nature

ALSTACIDE CW20/21 Non-oxidizing biocide for microbial control in evaporative recirculating water systems. Should be used in alternate weekly dosing with CW25/ CW30

ALSTACIDE CW30 Cooling water microbiocide. Non-oxidizing, chlorine free and fast acting

ALSTACIDE CW90/91 Chlorine based biocide for recirculating water in cooling towers

ALSTACIDE CW95 Chlorine activator

### Biodispersant

ALSTACOOOL BD40 / BD41 Bio-dispersant designed for open loop cooling water systems with high amounts of algae, slime and biofilm contamination

ALSTACOOOL BD20 Heavy-duty bio-dispersant specially designed for cooling water systems with wooden components which encourage high algae, slime and biofilm growth. Low foaming nature





## Boiler Water Treatment Chemicals

Boiler compounds are used for removing and preventing mineral scale deposition and rusting of the water / steam side of boiler internals. Chemtex contribute to the overall safety of operation of the boiler and steam

### Boiler Corrosion Inhibitor

ALSTHERM C333/C334 Polyamine based corrosion inhibitor used in steam and complex condensation

ALSTHERM DH90 Diethylhydroxylamine (DEHA) based oxygen scavenger and condensate line corrosion inhibitor.

Morpholine Organic compound based steam boiler corrosion inhibitor

Cyclohexylamine Amine derived from cyclohexane as an excellent boiler corrosion inhibitor

### Boiler Oxygen Scavenger

ALSTHERM S100 Catalyzed powder oxygen scavenger

ALSTHERM S100L Catalyzed oxygen scavenger in liquid form based on sodium sulphite

ALSTHERM S200 / H235 Catalyzed hydrazine based oxygen scavenger from boiler feed water without building TDS

ALSTHERM OX Carbohydrazide based liquid film forming volatile corrosion inhibitor

Carbohydrazide Non-toxic powder corrosion inhibitor and oxygen scavenger

Hydrazine Hydrate Oxygen scavenger in steam boilers. It breaks down into nitrogen gas and water

### Boiler pH Adjuster

ALSTHERM 004 Alkaline builder for boiler feed water

ALSTHERM 005 Alkalinity and deposition controller

ALSTHERM 006 pH booster and water conditioner

### Boiler Antiscalant

ALSTHERM M220 Coil type boiler antiscalant specially for coil type boilers

ALSTHERM M221 Smoke tube boiler antiscalant for smoke type boilers

ALSTHERM M222 Water tube boiler antiscalant for water tube boilers

ALSTHERM 001 Synthetic polymer based online boiler descalant to remove salt precipitates, deposits and sludge

### Boiler Multipurpose Chemicals

ALSTHERM MP40 multipurpose boiler chemical to prevent scale, corrosion, sludge and iron oxide deposition

ALSTHERM MP79 Boiler additive to prevent scale, corrosion, sludge with oxygen scavenging and pH boosting functions

### Boilout and Descalant Chemicals

CHEMCLEAN 01 Liquid boiler descalant with detergent

CHEMCLEAN 02 Boil out and scale softening chemical

CHEMCLEAN 05 Powder based boiler descalant based on Inhibited Sulphamic Acid

CHEMCLEAN 06 Boiler additive to remove silica and organic deposits

CHEMCLEAN 07 Single step boiler cleaner removing oil grease and mill scale

# Refrigeration & Air Conditioning Chemicals

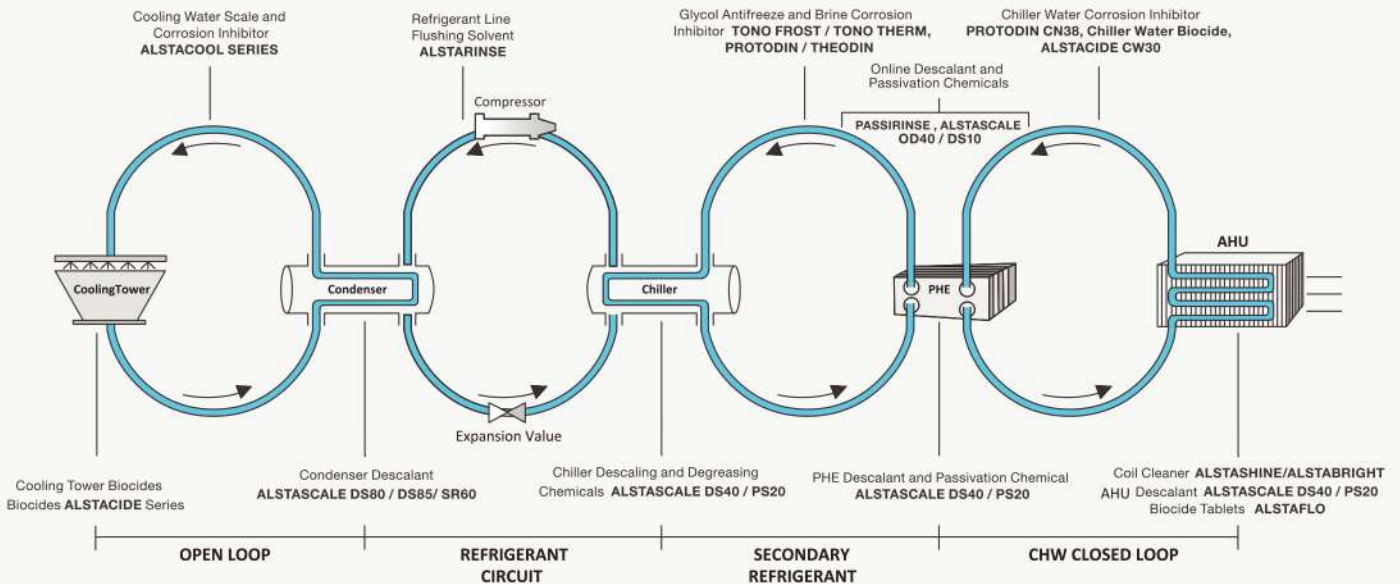
for Bottling Plants, Thermal Energy Storage, HVAC Systems, Freezers



HVACnR system require heavy-duty heat transfer fluids and maintenance chemicals to maintain peak performance and safe operation. CADR (Clean Air Delivery Rate), IAQ (Indoor Air Quality), and efficient heat transfer is maintained with periodic treatment of HVAC systems



## HVAC Schematic Diagram



## Food Grade Glycol

for Dairy, Beverage, Breweries & Microbreweries, Edible oils, Pharmaceuticals, Distilleries, Meat Processing, Freezer on wheels

Propylene Glycol is a colorless stable, non-toxic hygroscopic heat transfer liquid used as an antifreeze in the refrigeration systems. It degrades into organic acids and causes metal corrosion

**TONO FROST 593** Pre-inhibited propylene glycol food grade antifreeze designed to protect commonly found metals in the food processing industry ; NSF Certified

**PROTODIN** Corrosion inhibitor for propylene glycol based heat transfer fluids. It passivates metal surfaces and buffers organic acids formed by glycol degradation

**TONO THERM 999 SERIES** of HP/HT-LT Heat Transfer Fluid based on Inhibited Ethylene Glycol for multi-utility applications such as Process Cooling/Heating, Solar Panels, HVAC, Speciality & Packaging Films, Converter Cooling, Blow Molding & Injection, Welding/Heat Torch.



## Industrial Grade Glycol

for Thermal Storage Systems, Gas Compressor Systems, Solvent Extraction Units, Windmills, Cold Storage, Antifreeze, Mould cooling, Process cooling and healing

Ethylene Glycol is a heat transfer liquid extensively used as antifreeze and antiboiling agent for refrigeration systems and engine coolant. It is corrosive and toxic in nature

**TONO THERM 593** Pre-inhibited mono ethylene glycol antifreeze formulated to meet the needs of large scale industrial cooling and HVAC systems

**THEODIN** Multi-metal corrosion inhibitor that works on surface adsorption technology to prevent metal corrosion and buffers pH of the system



## ➤ Air Conditioning Chemicals



**ALSTASHINE** Non acidic coil cleaner and brightener for complete removal of dirt, grease & carbonaceous deposits on aluminium fins and copper coils

**ALSTABRIGHT** Acidic coil cleaner and brightener to effectively remove dirt, mineral scale and cementitious deposits from cooling coils and aluminum components

**ALSTARINSE** Vaporizing flushing solvents to clean carbon, moisture, dirt, oil, sludge and metal deposits from refrigerant and compressor lines. Non-carcinogenic, Non-flammable, Non-ozone depleting. Eco-friendly replacement of CTC (Carbon Tetrachloride)

**ALSTASCALE DS85** Blend of acids with inhibitors that can be used as a heavy duty liquid descalant for hard water scales with high silica/ silicate deposits

**ALSTA-FLO** Tablets Slow release biocide tablets that when added to condensate drip pan helps to keep the tray clean and slime-free to ensure no plugging of condensate water drain and keep air bacteria free

**DETPOL B-300** Liquid cleaner of AHU filter fabric and general purpose cleaning

## ➤ Chiller Treatment Maintenance

**ALSTASCALE OD40/DS10** Online descalant or rust remover for new or old CHW line carrying chiller water, glycol antifreeze or calcium chloride brine

**ALSTACIDE CW30** Non-oxidizing microbiocide to prevent bacterial fouling of CHW system

**PROTODIN CN38** Nitrite based corrosion inhibitor with antiscalant for water and glycol brine

**ALSTACLEAN CP60** Calcium chloride and methanol brine corrosion inhibitor

**ALSTACLEAN CP65** Calcium chloride and methanol brine multi-metal corrosion inhibitor

**ALSTASCALE PS20/PASSIRINSE** Bio-degradable purging and passivation chemical for closed loop systems

**ALSTA GLO** Non-toxic bright green coloring agent for glycol, brine, methanol and water based HTF for leak detection



### RADIKOOL PI95X

95% ethylene glycol based extended life coolant antifreeze concentrate typical for Heavy duty diesel engines, confirming to ASTM D3360, ASTM D6210, JIS-K2234 (2006) and IS: 5759 (1994) standards

## ➤ PCM (Phase Change Material)

TONO range of PCM (Phase Change Material) are available for various temperature range and forms such as liquid, solid and gel

## ➤ Eutectic and Heat Treatment Salts

Eutectic salts of different melting temperature finds use in various applications of thermal energy storage in solar power, defence, paper, etc industry

# Cleaning & Hygiene Chemicals

for Food Processing, Beverage, Breweries, Dairy and Pharma



The choice of cleaner or disinfectant, use concentration and exposure time is based on the degree and type of soil along with the risk of infection associated. Cleaners are generally categorized on their foaming nature, while disinfectants on their oxidizing characteristics

## Liquid Detergent



### DETPOL B-300

Liquid Detergent as per IS 4956: 2002 Type 3 Standard, Neutral pH, Medium foaming, Multi-purpose

Anionic surfactant based multipurpose liquid cleaner/detergent having neutral pH and good material compatibility. It is non-hazardous and requires no stringent handling precautions. DETPOL B-300 finds a wide range of applications in food and beverage, dairy, pharma, and other industries where quick and efficient cleaning is required

## General Cleaners & Disinfectants

**ALSTACLEAN QC30 / GC30** QAC based germicidal cleaner with excellent material compatibility for use on aluminium, stainless steel, rubber, plastic, and other components usually found in the FnB sector

**ALSTACLEAN CL5** Heavy-duty chlorinated foaming cleaner for bio-foulants, oil and grease. Effective against various types of microbial contamination commonly found on exposed surfaces in FnB

**ALSTASAN CL10** Chlorinated low foaming cleaner and disinfectant ideal for CIP and spray cleaning. Required for cleaning of organic matter, along with excellent degreasing and disinfecting abilities

**ALSTASAN II 256** Broad spectrum hard surface cleaner and deodorizer for hard non porous, inanimate surfaces, tanks, utensils. Leaves a refreshing fragrance

**ALSTASAN PQ15** PHMB, QAC based non-oxidizing disinfectant with long lasting disinfecting abilities remaining active in presence of high organic matter

**ALSTACLEAN CL90** Heavy duty decarbonizer and degreaser for removal of carbon, stubborn greasy residues, oils, fats and protein rich deposits

**ALSTASAN ID4** Iodophore based conventional water and surface sanitizer. Non oxidizing, non chlorine, non phenol formulation

**ALSTASAFE** Foaming Cleaner Mild alkaline safe on aluminium and alloys, for light to medium duty cleaning applications

## Bottle Washing

**ALSTACLEAN BW** of Recycled Glass Bottle Washing Chemicals

**Potato Washing Defoamer** High performance antifoam for washing/slicing of potato starch

**Conveyor Chain Lubricants** Heavy-duty conveyor belt grease, reducing friction and power loss

**Air Fumigation by Fogging** Aerial fumigation in a controlled atmosphere to exterminate air-borne pathogens



Conventional CIP consists of Caustic-Nitric-Caustic (CNC) treatment followed by hot water sterilization, with significant amounts of energy and water being consumed in the process. Chemtex formulated CIP treatment reduces this four step process to two or three steps thus reducing time, cost, energy, manpower with substantial increase in productivity and efficiency

## CIP Cleaners & Sterilants

### Acidic

**ALSTACLEAN CP3** Low foaming acidic CIP cleaner based on phosphoric acid and derivatives. It rinses off alkaline residues and aids in the removal of lime scales and acid soluble residues

**ALSTACLEAN CP4** Heavy-duty CIP cleaner based on nitric and phosphoric acid effective at removing inorganic scale deposits, beer stones (calcium oxalate)

**ALSTACLEAN CP5** Heavy-duty acidic CIP cleaner, degreaser and stainless steel passivator for food industry, based on nitric acid. It ensures optimum system performance, by reducing chances of metal oxidation by corrosion

**ALSTACLEAN CP67** Cleaner additive based on phosphonic acid derivatives, sequestrants and defoaming surfactants, finding use in CIP and bottle washing applications

### Alkaline

**ALSTACLEAN CP90** CIP cleaner and caustic additive based on potassium hydroxide, inorganic sequestrants, organic chelants and surfactants for scale softening and removal. Use of CP90 during CIP eliminates or minimizes the need for acidic cleaning

**ALSTACLEAN CP18** Heavy-duty alkaline cleaner based on a blend of surfactants for cleaning of fat and oil deposits from aluminium, and prevents whitish film formation after use

**ALSTACLEAN CP90-D** CIP cleaner and disinfectant based on sequestrants, chelants, QAC's and non-ionic surfactants. Non foaming nature, and can be dosed both automatically and manually. It can be used as a stand-alone CIP cleaner and disinfectant or in addition to any compatible alkali donor. It is a single product solution to address the needs of milk collection and chilling centres and tanker cleaning

### Disinfectant

**ALSTASAN FORTE** 15% peracetic acid and hydrogen peroxide based high activity cold sterilant for use in dairies, FnB, pharma, breweries, etc. It is a non staining, non tainting, no rinse formula with nil heavy metal content

**ALSTASAN ACTIV** 5% peracetic acid based disinfectant and sanitizer for equipments during CIP.

Biodegradable, non rinsing, non foaming formulation makes CIP and disinfection effective. It is compatible with both hard and soft water with a powerful oxidizing ability ensuring efficient stain removal. Cold sterilant, complying with 21 CFR 173.370

 \*ALSTACLEAN CP90-D alkaline CIP cleaner & disinfectant



## ALSTASAN® ACTIV

Peracetic Acid Stabilized,  $\text{CH}_3\text{COOOH}$ ;  
CAS No.79-21-0

In-vitro antibacterial efficacy test results in accordance to IS 5253:1971 show organisms like E. coli (ATCC 25922), L. monocytogenes (15313), E. faecalis (ATCC 14506), B. cereus (ATCC 11778), S. abony (NCDC6017), P. vulgaris (ATCC 6380), S. aureus (NCDC 237) are inactivated within 10 mins of contact time at 0.2% concentration of **ALSTASAN ACTIV** at ambient temperature



### NDRI

The National Dairy Research Institute, Karnal has certified **ALSTASAN ACTIV** for use as a cold sterilant for killing pathogens related to dairy industry

# Surface Treatment Chemicals

for Steel, Power, Engineering, Oil & Gas, Petrochemical, Defense, Parts Washing



Surface treatment such as derusting, rust prevention, degreasing are the part of maintenance programs that are aimed to keep plant machinery functioning smoothly with minimum downtime and CapEx

## Parts Washing (Degreaser, Decarbonizers and Rust Preventives)

**PROTODIN VDS** Low foaming Water based Degreaser and Corrosion Inhibitor specially designed for cleaning and degreasing machine components, pre-assembly components, machines, tools and effectively removes soluble mineral cutting oils, lapping pastes, dye residues and other contaminants.

**ALSTACLEAN VD20 / VD30** Vaporizing degreaser based on eco-friendly solvent for heavy duty degreasing and decarbonizer of metal surface. It is an ideal replacement to ozone depleting and carcinogenic solvents such as Trichloro Ethylene (TCE) and Carbon Tetrachloride (CTC)

**ALSTACLEAN CL90** Foaming cleaner and degreaser (water based) for alkaline cleaning of dirt and carbonaceous deposits. Creates instant foam that helps to clean hard to reach spaces

**ALSTACLEAN DG90** Non-foaming aqueous based alkaline cleaner, ideal for dip and soak method and in spray applications where foam is not desired

**ALSTACLEAN CC** Electronic Contact Cleaner

## Derusting and Phosphating

**DERUST 40** Derusting liquid formulation for removal of rust, metal-oxide deposits from ferrous metal

**ALSTADINE M31 and M35** 3-in-1 metal treatment compound for derusting, degreasing and phosphating

## Descaling, Pickling and Passivation

**A2 PICKLING PASTE** for removal of welding spots and marks from stainless steel fabricated vessels

**A2 PASSIVATION GEL** for passivation of stainless steel with chromium layer to prevent further spotting

**CITRIC ACID** for cleaning and descaling

**EDTA SALTS AND ACIDS AS** chelating agent for metal oxide and sequestrant of calcium salt deposits on metal surfaces

**SULPHAMIC ACID** for descaling of boiler and heat exchangers



**PROTODIN<sup>®</sup> Acid Inhibitors (Rodine type)**  
Acid Pickling, Descaling, Derusting, Oil well acidization

Inhibitor	Acid and Application
213	5-10% HCl for pickling, acidizing, cleaning
213 SPL	HCl, HF and HCl-HF mixtures thereof
103 NPF	Mineral acids. Nonyl phenol Free, eco-friendly
92B	Citric Acid and EDTA descaling and passivation
50	HCl batch pickling
57	H <sub>2</sub> SO <sub>4</sub> pickling at ambient temperature
85	H <sub>2</sub> SO <sub>4</sub> batch pickling at high temperature
95	H <sub>2</sub> SO <sub>4</sub> strip pickling at high temperature
31A	H <sub>3</sub> PO <sub>4</sub> and other acids for descaling
130	Sulfamic acid descaling (powder form)
2010	Ammoniated EDTA and ammoniated citric acid
2020	H <sub>3</sub> PO <sub>4</sub> , HEDP, ATMP, PBTC and DETMP

# Performance Additives

for Construction, Coal, Energy, Steel



## Construction Chemicals

ALSTACON SP40 Concrete admixture-super plasticizer

PROTODIN CS / CSP / CSX Bipolar integral concrete corrosion inhibitor for reinforcing steel protection from rusting

### Biocides

Benzalkonium Chloride (BKC) Broad spectrum terminal disinfectant and biocide

Phmb/Phmg Guanidines and biguanidines are highly compatible biocides with high efficacy

Isothiazolinone (CMI/MIT) Microbiocide for various applications such as preservation, bio-fouling inhibition

Didecyl Dimethyl Ammonium Chloride (DDAC) 4th gen quaternary ammonium compound based biocide

Glutaraldehyde Conventional aldehyde for oil wells, water, leather and institutional applications

Peracetic Acid High oxidizing biocide. Eco-friendly, degrades into water, oxygen and vinegar

### Suppressants & Retardants



DUSLOC - Dust suppressant additive for coal dust, mineral ores and general industries by sprinkling highly diluted solution of the product



FOAMLOC - Antifoaming additive to counter foaming issues in various applications related to process or production additive



VAPLOC - Evaporation retardant used in large scale industries to prevent the harvested rain water from evaporating. Also finds use in agriculture.



FIRELOC - Fire retardant chemical for textiles, canvas, polyester, hay and such fabrics to prevent catching fire to a large extent

### Phosphonates & Polymers

TONO PHOS Metal ion sequestrants based on organophosphonates acids such as PBTC, HEDP, ATMP, DETMP etc.

TONO POLYMER Polymeric dispersant based on low and high molecular weight homo-, bi- and ter-polymers and polymaleic Acid

### Performance Additives

DETPOL SPC  
Solar panel cleaning chemical

ALSTA GLO  
Baghouse leak detection powder

SILICONE OIL  
Polydimethylsiloxane (CAS No. 9016-00-6)

#### IMIDAZOLINES

- Hydroxy Ethyl Imidazoline (Cas No. 68937-01-9)
- Amino Ethyl Imidazoline (Cas No. 68526-44-3)
- Amido Ethyl Imidazoline (Cas No. 63441-26-9)

# Agro Chemicals

for Horticulture, Open Field, Greenhouse, Coco-peat, Livestock



Agro chemical is a broad terminology that covers farming of crops, flowers (floriculture), livestock and animal products. Practice of proper field sanitation helps in maintenance of farm bio-security and increase in produce, at the same time enabling reduction in energy and labour

## Soil Disinfectant

### ALSTASAN<sup>®</sup> SILVOX

Nano Silver Hydrogen Peroxide based  
Agriculture Disinfectant

Preventive and curative treatment for most pathogenic plant diseases. Eco-friendly non-toxic product degrading into water and oxygen after use

#### Method of Application

- Soil fumigation/sterilization
- Treatment by Drip method
- Treatment by Drench Method
- Foliar Spray treatment
- Pruning tools sterilization
- Hydroponics Treatment
- Seed Treatment
- Seed Bed Treatment
- Post Harvest Wash
- Irrigation Water Sanitation



Certified by National Toxicology Centre (FDA affiliated laboratory) for non-toxicity under OECD Guideline 423 and found to be GHS category 5, considered safe and relatively non-toxic

#### ► Poultry Hygiene

Unhygienic conditions in the poultry sheds permit the multiplication of pathogens like Salmonella, E. coli and Campylobacter. An efficient disinfection program is important in every poultry for bio-security

ALSTASAN CL5 - Chlorinated cleaner and disinfectant

ALSTASAN ACTIV 12 - PAA based terminal disinfectant

ALSTAQUAT - Quaternary disinfectant and cleaner

ALSTASAN PQ5 - QAC/ PHMB based disinfectant

ALSTASAN GQ35 - Aldehyde/ QAC based biocide

AMMOLOC - Ammonia odour locking chemical

## Growth Promoter

### ALSTA HYDROGEL

Potassium Polyacrylate based  
Super Absorbent Polymer

For use as a water retaining agent in drought prone areas. Non-toxic, bio-degradable with no residues around, and an operational life of over five years

#### Features and Benefits

- 400 times water absorption capacity
- 50% lessened irrigation frequency
- 15 - 20% decrease in fertilizer usage
- Provides stability and insulation in winter

#### ► Aquaculture Chemicals

Farming of aquatic animals like fishes, prawns and shrimps require careful use of disinfectants to ensure complete removal of pathogenic and algal communities. Aquaculture disinfectant chemicals prevent spotting, and infections, also ensuring better size and quality of the produce

ALSTASAN AQUA - Disinfectant based on a synergy of QAC's, biguanidines and aldehyde

#### ► Veterinary Chemicals

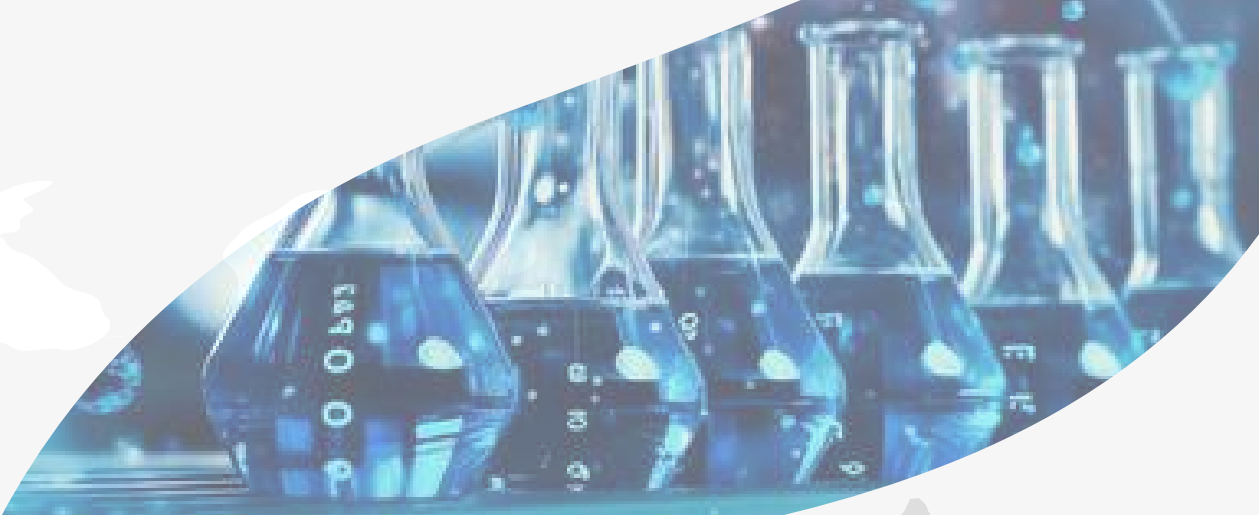
Biofilm formation/ organic scaling in drinking water systems (storage tanks, pipe systems, nipples, cups, etc.) provide an ideal breeding ground for bacteria, resulting in poor water quality. Surfaces, floors, walls and equipment in animal husbandry must be disinfected regularly. Disinfection of drinking water for animal use is necessary to ensure optimal water quality

ALSTASAN ID4 - Iodophore based disinfectant

ALSTASAN SILVOX 150 - Silver hydrogen peroxide based biocide

ALSTACHLOR 5G TABLET - Sodium dichloroisocyanurate based tablets

chemical  
technology  
xperts



chemtex

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