

UTILITY CHEMICALS

FOR BOILERS, COOLING TOWERS, CHILLERS,
RO SYSTEM & WASTE WATER MANAGEMENT





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OVERVIEW

Utility systems are the backbone of industrial process, demanding consistent performance, efficiency, and sustainability. Chemtex's range of utility chemicals ensure optimal operation, reduced downtime, and extended equipment lifespan while aligning with environmental safety standards.

ISSUES WITH UTILITY SYSTEM

Boilers

Scaling, corrosion, and sludge buildup lead to reduced heat transfer and frequent breakdowns.



Cooling Towers

Microbial growth, scaling, and corrosion causing inefficiencies and high maintenance costs.



Chillers

Fouling and scaling reducing cooling efficiency and increasing energy consumption.



RO System

Membrane fouling, scaling, and chemical imbalances reduce water recovery rates.



Wastewater Systems

Inefficient contaminant removal, odor issues, and non-compliance with environmental norms.



BOILER CHEMICALS

Boiler chemicals are essential for preventing and removing mineral scale deposits and corrosion within the water and steam pathways of boiler systems. Chemtex ensures the efficient and safe operation of boilers by maintaining clean heat transfer surfaces and protecting internal components, thereby enhancing overall performance and reliability.



Corrosion Inhibitors

| Product Name | Form | Base Composition | Packaging |
|-----------------|--------|---|-------------------|
| ALSTHERM C311 | Liquid | Blend of Morpholine, DETA, Cyclohexylamine & other amines | 35/50 Kg HDPE Jar |
| ALSTHERM C333 | Liquid | Blend of Morpholine, DETA, Cyclohexylamine & other amines | 35/50 Kg HDPE Jar |
| ALSTHERM C334 | Liquid | Blend of Morpholine, DETA, Cyclohexylamine & other amines | 35/50 Kg HDPE Jar |
| MORPHOLINE | Liquid | 98% wt. (min) | 35/50 Kg HDPE Jar |
| CYCLOHEXYLAMINE | Liquid | 98% wt. (min) | 35/50 Kg HDPE Jar |

Oxygen Scavengers

| Product Name | Form | Base Composition | Packaging |
|-------------------|--------|---------------------------|-------------------|
| ALSTHERM S100 | Powder | Sodium Bisulphite Based | 25/50 Kg HDPE Jar |
| ALSTHERM S100L | Liquid | Sodium Bisulphite Based | 35/50 Kg HDPE Jar |
| ALSTHERM OX | Liquid | Carbohydrazide based | 35/50 Kg HDPE Jar |
| ALSTHERM DH90 | Liquid | Diethylhydroxylamine base | 35/50 Kg HDPE Jar |
| CARBOHYDRAZIDE | Powder | 98% wt. (min) | 25/50 Kg Bag |
| HYDRAZINE HYDRATE | Liquid | 55% wt. , 64%wt. , 80%wt. | 35/50 Kg HDPE Jar |

Descaling Chemicals

| Product Name | Form | Base Composition | Packaging |
|--------------|--------------------------|----------------------------|--------------|
| CHEMCLEAN 01 | Liquid | Inorganic Acid Derivatives | 35/50 Kg Jar |
| CHEMCLEAN 05 | Crystalline/ Granular | Sulfamic Acid | 25 Kg Bag |

Antiscalant

| Product Name | Form | Base Composition | Packaging |
|--------------------------------------|--------|--|-------------------|
| ALSTHERM M220 (Coil Type Boiler) | Liquid | Blend of HEDP/PBTC/ATMP Salts & Acids | 35/50 kg HDPE Jar |
| ALSTHERM M221 (Smoke Type Boiler) | Liquid | Blend of HEDP/PBTC/ATMP Salts & Acids | 35/50 kg HDPE Jar |
| ALSTHERM M222 (Water Type Boiler) | Liquid | Blend of HEDP/PBTC/ATMP Salts & Acids | 35/50 kg HDPE Jar |

pH Regulators

| Product Name | Form | Base Composition | Packaging |
|---|--------|---|----------------|
| ALSTHERM 004 (pH Booster) | Liquid | Hydroxides of Alkali earth metal salts | 50 Kg HDPE Jar |
| ALSTHERM 005 (pH Reducer) | Liquid | Organic Acid Derivatives | 50 Kg HDPE Jar |
| ALSTHERM 006 (pH Booster with Sludge Conditioner) | Liquid | Hydroxides of Metal Salts & Homo Polymer | 50 Kg HDPE Jar |

Multipurpose Chemicals

| Product Name | Form | Base Composition | Packaging |
|---------------|--------|--|-------------------|
| ALSTHERM MP40 | Liquid | Proprietary Blend (without O ₂ scavenger) | 35/50 Kg HDPE Jar |
| ALSTHERM MP79 | Liquid | Proprietary Blend (with O ₂ scavenger) | 35/50 kg HDPE Jar |



COOLING TOWER CHEMICALS

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

Scale & Corrosion Inhibitors

| Product Name | Form | Base Composition | Packaging |
|-----------------|--------|------------------------|-------------------|
| ALSTACOOOL AS10 | Liquid | PBTC/HEDP Based | 35/50 Kg HDPE Jar |
| ALSTACOOOL Z30 | Liquid | Zinc phosphonate-based | 35/50 Kg HDPE Jar |
| ALSTACOOOL CN25 | Liquid | Azole Based | 35/50 Kg HDPE Jar |
| ALSTACOOOL CN27 | Liquid | Molybdate Based | 35/50 Kg HDPE Jar |

Dispersant & Bio-Dispersant

| Product Name | Form | Base Composition | Packaging |
|-----------------|--------|---------------------------|-------------------|
| ALSTACOOOL DP40 | Liquid | Blend of Co & Ter polymer | 35/50 Kg HDPE Jar |
| ALSTACOOOL DP80 | Liquid | Blend of Co & Ter polymer | 35/50 Kg HDPE Jar |
| ALSTACOOOL D25 | Liquid | Blend of Co & Ter polymer | 35/50 Kg HDPE Jar |
| ALSTACOOOL BD20 | Liquid | Non-Ionic Surfactant Base | 35/50 Kg HDPE Jar |
| ALSTACOOOL BD40 | Liquid | Non-Ionic Surfactant Base | 35/50 Kg HDPE Jar |

Descalant & Passivators

| Product Name | Form | Base Composition | Packaging |
|-----------------|--------|---|----------------------|
| ALSTASCALE DS85 | Liquid | Ortho-Phosphoric Acid | 35/50 Kg HDPE Jar |
| ALSTASCALE SR60 | Liquid | Surface Active Agent, Emulsifier, Organic Acids | 35/50 Kg HDPE Jar |
| ALSTASCALE PS20 | Liquid | Non-volatile Amines | 25/35/50 Kg HDPE Jar |
| ALSTASCALE SS22 | Liquid | Scale softner chelating Agent | 35/50 Kg HDPE Jar |

Biocides & Microbiocides

| Product Name | Form | Base Composition | Packaging |
|----------------|--------|------------------------------------|-------------------|
| ALSTACIDE CW20 | Liquid | Sodium Dimethyldithiocarbamate | 35/50 Kg HDPE Jar |
| ALSTACIDE CW25 | Liquid | PolyQuat, Stabilizers, Water Based | 35/50 Kg HDPE Jar |
| ALSTACIDE CW30 | Liquid | CIT/MIT Based | 35/50 Kg HDPE Jar |
| ALSTACIDE CW90 | Liquid | Chlorine Based (Stabilized) | 35/50 Kg HDPE Jar |
| ALSTACIDE CW95 | Liquid | Chlorine Activator | 35/50 Kg HDPE Jar |





RO CARE CHEMICALS

RO chemicals ensure reverse osmosis and desalination plants operate at peak performance with optimum efficiency, optimized membrane life expectancy, and reduced maintenance costs.

Antiscalants



| Product Name | Form | Base Composition | Packaging |
|--------------|--------|---|------------------------|
| ALKRO AS40 | Liquid | Organic acid | 5/20/35/50 Kg HDPE Jar |
| ALKRO AS80 | Liquid | Organic acids with Polymers | 5/20/35/50 Kg HDPE Jar |
| ALKRO AS90 | Liquid | Organic basic salts (Food Grade) | 5/20/35/50 Kg HDPE Jar |
| ALKRO HS40 | Liquid | Organic acids with Performance boosters for silica removal | 5/20/35/50 Kg HDPE Jar |
| ALKRO PC191 | Liquid | Organic basic salts, Surfactant base, formulated on perma care technology | 5/20/35/50 Kg HDPE Jar |

RO Membrane Cleaners & Disinfectants



| Product Name | Form | Base Composition | Packaging |
|----------------|--------|---|------------------------|
| ALKRO CL21 | Liquid | Organic Acid based | 5/20/35/50 Kg HDPE Jar |
| ALKRO CL27 | Liquid | Organic Alkaline Salt based | 5/20/35/50 Kg HDPE Jar |
| ALSTASAN ACTIV | Liquid | Peracetic acid, Hydrogen peroxide based | 20 Kg HDPE Jar |
| ALKRO BC51 | Liquid | Non-Oxidizing Organic compound | 25/35/50 Kg Jar |
| ALKRO BC15 | Liquid | Oxidizing Organic compound | 25/35/50 Kg HDPE Jar |

Packaged Drinking Water Chemicals



| Product Name | Form | Base Composition | Packaging |
|--------------|--------|----------------------------|------------------|
| ALKRO AB | Powder | Blend of Mineral Additives | 10/25 kg Bag/Jar |
| ALKRO ABT | Liquid | Blend of Mineral Additives | 20 kgs HDPE Jar |

MINERALS AND ADDITIVE

- Sodium Bicarbonate: CAS No. 144-55-8
- Potassium Bicarbonate: CAS No. 298-14-6
- Magnesium Sulphate: CAS No. 7487-88-9

Potable Water Disinfectant



| Product Name | Form | Base Composition | Packaging |
|-----------------------------------|--------|--------------------------------|-----------------|
| ALSTASAN SILVOX WT (FDA APPROVED) | Liquid | Silver Hydrogen Peroxide Based | 20 kgs HDPE Jar |

Jar Washing Chemicals



| Product Name | Form | Base Composition | Packaging |
|---------------|--------|---|---------------------|
| ALSTACLEAN PC | Liquid | Glycolic Acid (Food grade), Wetting Agent (Non-foaming) | 5/20/50 Kg HDPE Jar |
| DETPOL B-300 | Liquid | SLES 20%, Performance Additives | 5/20/50 Kg HDPE Jar |



WASTE WATER MANAGEMENT

Waste Water Treatment chemicals are designed to enhance operational efficiency, extend equipment lifespan, and minimize maintenance expenses.

POLYELECTROLYTES (FLOCCULANTS & COAGULANTS)

Polyelectrolytes are organic polymers based on polyacryl amides of various molecular weights and ionic charges that are used in flocculation, sludge dewatering, paper making, sugar juice clarification, and other applications.

Cationic Polyelectrolytes

| Product Name | Form | Base Composition | Packaging |
|--------------------|----------------|-------------------------------|-------------------|
| ALSTAFLOC 155 | White Granules | LMW Polyelectrolytes | 25 Kg Bag |
| ALSTAFLOC 155X | White Granules | LMW-HMW Polyelectrolytes | 25 Kg Bag |
| ALSTAFLOC 155XX | White Granules | HMW Polyelectrolytes | 25 Kg Bag |
| ALSTAFLOC PH 47/49 | Liquid | Aluminium Chlorohydrate based | 30/50 kg HDPE Jar |

*LMW- low molecular weight, HMW- High molecular weight

Anionic Polyelectrolytes

| Product Name | Form | Base Composition | Packaging |
|-------------------|----------|---|----------------|
| ALSTAFLOC 40 | Granules | Partially Hydrolyzed Polyacrylamide/Polyacrylate (PHPA) | 25 Kg HDPE Bag |
| ALSTAFLOC 60 | Granules | Synthetic Polyacrylamide Flocculant | 25 Kg HDPE Bag |
| ALSTAFLOC 934 | Granules | LMW Polyelectrolytes | 25 Kg HDPE Bag |
| ALSTAFLOC 107/108 | Granules | HMW Polyelectrolytes | 25 Kg HDPE Bag |

*LMW- low molecular weight, HMW- High molecular weight

Inorganic Polymer

| Product Name | Form | Base Composition | Packaging |
|---------------|--------|------------------------|----------------|
| ALSTAFLOC PAC | Powder | Poly Aluminum Chloride | 25 kg HDPE Bag |

Organic Polymers

| Product Name | Form | Base Composition | Packaging |
|----------------|--------|---|--------------------|
| ALSTAFLOC PD40 | Liquid | Poly DADMAC | 50kg HDPE Drum |
| ALSTAFLOC DC90 | Liquid | Poly DCDA | 50 Kg HDPE Drum |
| ALSTAFLOC T | Liquid | Organic Polymer with two or more amine groups | 35/50 Kg HDPE Drum |

CHILLER MAINTENANCE CHEMICALS

Scaling from minerals in make-up water, corrosion caused by acid attack and dissolved gases, and bio-fouling are common challenges in chiller water systems. Effective maintenance requires thorough system cleaning to ensure optimal performance and longevity, including de-rusting and passivation of exposed metal surfaces.

| Range | Product Name | Form | Base Composition | Packaging |
|--------------------------------|-----------------|--------|--|----------------------|
| Corrosion Inhibitor | PROTODIN CN38 | Liquid | Sodium Nitrite, Phosphonate, Azole and Polymer | 35/50 kgs HDPE Jar |
| Cleaning & Flushing Surfactant | ALSTACLEAN CP65 | Liquid | Non-Ionic Surfactant | 35/50 Kg HDPE Jar |
| Micro Biocide | ALSTACIDE CW30 | Liquid | CMIT/MIT based | 35/50 Kg HDPE Jar |
| Online Descalant | ALSTASCALE DS10 | Liquid | Orthophosphoric Acid based | 25/35/50 Kg HDPE Jar |
| Passivation Chemical | ALSTASCALE PS20 | Liquid | Non-Volatile Amines | 25/35/50 Kg HDPE Jar |



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