



asg chemie



WATER TREATMENT

ASG Chemie supplies a full range of bulk and specialty chemicals for drinking water, cooling towers, process water, and wastewater treatment. For potable water, products like aluminum sulfate, PAC, and sodium hypochlorite support turbidity removal, disinfection, and efficient sludge handling. In industrial systems such as cooling towers, ASG's scale and corrosion control range, including HEDP, DTPMP, and polycarboxylates, helps maintain performance and protect equipment.

In wastewater treatment, ASG offers coagulants for phosphorus and metal removal, polymers for sludge thickening and dewatering, and agents like hydrogen peroxide for advanced oxidation and organics removal. With USA-based blending, local warehousing, and application expertise, ASG delivers tailored solutions across all major water treatment needs.

pH ADJUSTMENT & ALKALINITY CONTROL

Magnesium Oxide (MgO)

Magnesium oxide is used for pH adjustment and alkalinity control in water treatment processes. Its gradual solubility provides sustained buffering capacity, making it an excellent choice for stabilizing acidic waste streams.

Lactic Acid

Lactic Acid is a biodegradable organic acid used for controlled pH adjustment in industrial water and wastewater treatment systems. It provides a milder, more manageable alternative to mineral acids, allowing precise pH correction with reduced corrosion risk. Its organic nature makes it suitable for applications where environmental compatibility and process stability are important.

SILANOX™ Potash (Potassium Carbonate)

Potassium carbonate used as an alkalinity and pH adjustment agent in industrial water treatment and chemical processing applications. It offers strong buffering capacity and is widely used where potassium-based alkalinity sources are preferred.

PBTC (2-Phosphonobutane-1,2,4-Tricarboxylic Acid)

PBTC is a high-stability organophosphonate used to prevent scale formation and corrosion in industrial water systems. Its resistance to hydrolysis and chlorine makes it suitable for use in high-temperature or oxidizing environments.

EDTMP (Ethylenediamine Tetramethylene Phosphonic Acid)

EDTMP is a chelating agent that binds metal ions, improving the performance of water treatment additives. It is commonly used in cooling towers and boiler systems to control scale and enhance the efficiency of corrosion inhibitors.

DTPMP (Diethylenetriaminepenta Methylene phosphonic Acid)

DTPMP is a high-performance phosphonate that prevents scale and corrosion under severe operating conditions. It is especially effective in high-temperature, high-hardness systems and is compatible with a wide range of water chemistries.

MUNICIPAL WATER ADDITIVES

Sodium Fluoride

Sodium Fluoride is widely used in municipal water treatment for controlled fluoridation to help prevent tooth decay. It is supplied as a high-purity, free-flowing material that dissolves readily, ensuring accurate dosing and consistent water quality. Its proven safety and effectiveness make it a standard additive in drinking water treatment programs.

SCALE AND CORROSION CONTROL

Sodium Molybdate

Sodium Molybdate is a white or colorless crystalline powder, highly soluble in water, with a solubility of 76 g/100 mL at 25 °C. It is valued for its role as a source of molybdenum and as a corrosion inhibitor in various industrial systems, particularly those requiring low toxicity and high efficiency.

Polycarboxylate Scale Inhibitors

Polycarboxylates are versatile polymers that inhibit scale formation across a wide range of water conditions. They work by dispersing crystal nuclei and stabilizing hardness ions, thereby improving the efficiency and lifespan of water treatment equipment.

ATMP (Aminotris Methylenephosphonic Acid)

ATMP is a multifunctional scale inhibitor that effectively controls calcium carbonate, calcium sulfate, and other mineral deposits. Its strong metal chelation properties make it suitable for use in recirculating cooling water systems.

ATMP-Na5

ATMP-Na5 is an effective scale and corrosion inhibitor used in water treatment systems. It prevents calcium and magnesium scale formation while protecting metal surfaces from corrosion. Its high stability and compatibility make it ideal for industrial cooling, boiler, and desalination applications."

HEDP (1-Hydroxyethylidene-1,1-Diphosphonic Acid)

HEDP is a popular scale and corrosion inhibitor used in industrial water treatment, particularly in cooling systems and reverse osmosis units. It provides good thermal and hydrolytic stability and is effective across a broad pH range.

FOAM CONTROL

SILANOX™ PDMS

Polydimethylsiloxane (PDMS) fluids used as high-performance defoaming and surface-modifying agents in water treatment and industrial processing. They provide excellent foam suppression, thermal stability, and chemical resistance across a wide range of operating conditions.

SILANOX™ Silicone Emulsion Antifoams

Silicone-based antifoam emulsions designed for rapid foam knockdown and long-lasting foam control in aqueous systems. Available in multiple concentrations including 10%, these formulations are widely used in wastewater treatment, fermentation, and industrial process applications.

SPECIALTY AND SUPPORT CHEMICALS

SILANOX™ Hydrophobic Fumed Silica

Surface-treated fumed silica that provides moisture resistance, enhanced flow properties, and improved stability in silicone formulations and powders. It is commonly used as a thickening, anti-caking, and reinforcing agent in industrial and chemical applications.

SILANOX™ Hydrophilic Fumed Silica

High-purity fumed silica used as a rheology modifier, thickening agent, and anti-settling additive in liquid formulations. Its high surface area improves suspension stability and enhances performance in coatings, adhesives, and water treatment systems.

WASTEWATER

Additives to remove suspended solids, phosphorus, and heavy metals from municipal and industrial wastewater.

COAGULATION & PHOSPHORUS REMOVAL

Ferric Chloride

Ferric chloride is a highly effective coagulant used in wastewater treatment for the removal of suspended solids, phosphorus, and heavy metals. It forms dense flocs that settle rapidly, improving sludge dewatering and reducing residual turbidity in treated effluent.

Ferric Sulfate

Ferric sulfate is an effective alternative to ferric chloride when low chloride content is required. It delivers strong coagulation and phosphorus precipitation capabilities, making it ideal for municipal and industrial wastewater systems.

Polyaluminum Chloride (PAC)

PAC is a high-efficiency coagulant that improves clarification and sludge compaction in water treatment. Its pre-hydrolyzed form allows for faster floc formation and reduced sludge volume compared to traditional coagulants like alum or ferric salts.

Aluminum Sulfate (Al₂(SO₄)₃)

Aluminum sulfate, commonly known as alum, is used to coagulate and remove fine particles and turbidity from water. It is widely applied in both drinking water and wastewater systems for its cost-effectiveness and reliable performance in floc formation.

Aluminum Chlorohydrate (ACH)

ACH is a high-performance coagulant with higher basicity than standard alum, offering superior turbidity removal and reduced sludge production. It is especially beneficial in low-temperature or low-turbidity water conditions.

Sodium Aluminate

Sodium aluminate serves as both a coagulant and pH adjuster, particularly useful for phosphorus removal in wastewater treatment. It is often combined with other coagulants to enhance performance while maintaining optimal alkalinity levels.

SLUDGE DEWATERING & CONDITIONING

Cationic Polyacrylamides

Cationic polyacrylamides enhance sludge thickening by binding to negatively charged particles and improving floc structure. They are effective in gravity thickeners, centrifuges, and belt filter presses for efficient solids capture.

Anionic Polyacrylamides

Anionic polyacrylamides are used to dewater sludge by promoting the aggregation of fine particles into larger flocs. They improve sludge cake solids, reduce disposal volumes, and are suitable for use in both municipal and industrial plants.

ODOR CONTROL

Magnesium Hydroxide Slurry

Magnesium Hydroxide Slurry is a safe and effective solution for odour and corrosion control in wastewater systems. It provides controlled pH adjustment and alkalinity for biological treatment while reducing hydrogen sulfide formation. Its non-hazardous nature makes it a preferred alternative to caustic soda in many municipal and industrial applications.

OXIDIZERS

Calcium Bromide

Calcium Bromide is available in both solid form (powder or flake) and as a concentrated liquid brine. It is used in water treatment as a source of bromide ions, which can be activated to help oxidize contaminants and control microbial growth.

SPECIALTY AND SUPPORT CHEMICALS

Colloidal Silica / Nano-Silicas

Colloidal and nano-silicas are used as coagulant aids or membrane pretreatment agents. They improve particle agglomeration and sludge conditioning, leading to enhanced filtration and reduced fouling in ultrafiltration or RO systems.

Defoamers

Defoamers control and eliminate foam generated in aeration tanks, clarifiers, and chemical dosing systems. They improve process stability and prevent overflow or disruption caused by excessive foam during treatment operations.

Sodium Salt of 2-Acrylamido-2-methylpropanesulfonic Acid, 50% (ATBS.Na 50%)

A water-soluble monomer used to improve performance in various industrial applications, including water treatment, oilfield chemicals, and personal care products. It is valued for its high anionic charge density, thermal stability, and ability to enhance viscosity and salt tolerance in formulations.



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Bulk Chemicals and Specialty Performance Materials

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