

Organic Phosphonic Acid		
Product Name	Main Specification	Properties and Usage
Amino Trimethylene Phosphonic Acid(ATMP)	CAS 6419-19-8 48-52%,95%	Scale inhibitor, water treatment chemical in circulating water system, cement retarder, sequestering agent.
1-Hydroxy Ethylidene-1,1-Diphosphonic (HEDP)	CAS 2809-21-4 48-52%, 58-62%,90%	Scale and corrosion inhibitor, chelator, electroplate cleaning agent, desalination scale inhibitor, good acid-base resistance property, high performance cost ratio and sequestering ability
Ethylene Diamine Tetra (Methylene Phosphonic Acid) Sodium (EDTMPs)	CAS 22036-77-7 28-31%	Boiler corrosion and scale inhibitor, chelator, Oxygen bleaching stabilizer
Diethylene Triamine Penta (Methylene Phosphonic Acid) (DTPMPA)	CAS 15827-60-8 48-52%	Scale and corrosion inhibitor, peroxide stabilizer, paper making concrete additives, perfectly effective to sulfate scale
2-Hydroxy Phosphonoacetic Acid (HPAA)	CAS 23783-26-8 50%	Scale and corrosion inhibitor, improve Zn solubility, its corrosion inhibition ability is 5-8 times better than that of HEDP and EDTMPS
2-Phosphonobutane-1,2,4-Tricarboxylic Acid(PBTCA)	CAS 37971-36-1 49-51%	Excellent scale inhibition, corrosion inhibitor, zinc salt stabilizer, chelator, cleaning agent, suitable for high temperature, high alkalinity high hardness water.
Hexamethylene Diamine Tetra (Methylene Phosphonic Acid) (HDTMPA)	CAS 23605-74-5 97%	Inhibiting kinds of scale, excellent scale inhibitor and high scale inhibiting ratio to calcium sulfate scale
Bis(Hexamethylene Triamine Penta (Methylene Phosphonic Acid)) (BHMTMPA)	CAS 34690-00-1 43-48%	Scale inhibitor, corrosion inhibitor, mostly used in oil field
Polyamino Polyether Methylene Phosphonate (PAPEMP)	36%	Scale and corrosion inhibitor, high calcium tolerance to calcium carbonate, calcium phosphate, calcium sulfate

Organic Phosphonates		
Product Name	Main Specification	Properties and Usage
Disodium of 1-Hydroxy Ethylidene-1,1-Diphosphonic Acid (HEDP.Na ₂)	CAS 7414-83-7 20%,90%	Scale inhibitor, corrosion inhibitor, cleaning agent
Tetra sodium of 1-Hydroxy Ethylidene-1,1-Diphosphonic Acid (HEDP.Na ₄)	CAS 3794-83-0 29-31%,80%	Scale inhibitor for calcium carbonate, metal ions inhibitor for low pressure boiler water system, circulating water system, industrial and municipal cleaning water system and swimming pool
Potassium salt of 1-Hydroxy Ethylidene-1,1-Diphosphonic Acid (HEDP.K _x)	CAS 67953-76-8 26-30%	
Tetra sodium salt of Amino Trimethylene Phosphonic Acid (ATMP.Na ₄)	CAS 20592-85-2 38-42%	
Penta sodium salt of Amino Trimethylene Phosphonic Acid (ATMP.Na ₅)	CAS 2235-43-0 38-42%	Scale inhibitor,corrosion inhibitor, used for circulating cool system in power plant, oil refinery plant and oilfield refill water system
Potassium salt of Amino Trimethylene Phosphonic Acid (ATMP.K _x)	CAS 27794-93-0 35-40%	
Penta sodium salt of Ethylene Diamine Tetra(Methylene Phosphonic Acid)Sodium (EDTMP.Na ₅)	CAS 7651-99-2 30-32.5%	Cathodic corrosion inhibitor, good chemical stability, excellent scale inhibition ability under temperature 200℃
Sodium salt of Diethylene Triamine Penta (Methylene Phosphonic Acid) (DTPMP.Na _x)	CAS 22042-96-2 45-49%	Scale inhibitor, chelating agent, cool water system, peroxide bleachings stablizer, detergent auxiliaries, chelating agent in woven & dyeing industry, pigment dispersant, microelement's carrying agent in fertilizer and concrete modifier
Diethylene Triamine Penta (Methylene Phosphonic Acid) Pentasodium salt(DTPMP.Na ₅)	CAS 68155-78-2 28.5-31%	
Hepta sodium salt of Diethylene Triamine Penta (Methylene Phosphonic Acid) (DTPMP.Na ₇)	CAS 68155-78-2 40-42.5%,30.5-33.0 %	
2-Phosphonobutane -1,2,4-Tricarboxylic Acid, Sodium salt (PBTCA.Na ₄)	CAS 40372-66-5 40-42.5%,88.8-96.8%	Scale and corrosion inhibitor, excellent scale inhibition performance at high temperature
Potassium Salt of Hexa Methylene Diamine Tetra (Methylene Phosphonic Acid) (HDTMPMP.K ₆)	CAS 53473-28-2 31-36%	Scale inhibitor for calcium sulfate, apply to oil production in the sea, used for water treatment in boiler and RO membrane treatment

Polycarboxylic Acid Antiscale and Dispersant

Product Name	Main Specification	Properties and Usage
Polyacrylic Acid (PAA)	CAS 9003-01-4, 9003-04-7 30%, 40%, 45%, 50%	Aqueous dispersion agent, widely used as the scale inhibitor and dispersants in industrial circulating water system and papermaking, textile & dye, ceramic & coatings and other industries
Polyacrylic Acid Sodium (PAAS)		
Hydrolyzed Polymaleic Anhydride (HPMA)	CAS 26099-09-02 48%	Excellent scale inhibitor and heat resistant performance. Certain corrosion inhibition, cement additives, soil amendments, often used in desalination for seawater, low pressure boilers and industrial circulating cooling water system
Phosphino Polymaleic Anhydride (PPMA)	48%	
Copolymer of Maleic and Acrylic Acid (MA/AA)	CAS 26677-99-6 48%	Corrosion inhibitors, dispersants, chelating agent, excellent anti-scalants and heat resistant performance. good dispersing properties
Acrylic Acid-2-Acrylamido-2-Methylpropane Sulfonic Acid Copolymer (AA/AMPS)	CAS 40623-75-4 30%, 40%, 50%	Good anti-scalants & dispersants, especially for calcium phosphate, excellent performance to stabilize zinc and dispersing iron oxide, used as chelating & dispersants for industrial recycle cooling water
Acrylic Acid-2-Hydroxypropyl Acrylate Copolymer (AA/HPA, T-225)	CAS 55719-33-0 30%	Corrosion inhibitors, dispersants, better effect on phosphoric salt incrustation
Phosphino Carboxylic Acid Polymer (PCA, POCA)	CAS 71050-62-9 37.5-42.5%	Excellent dispersion property for calcium carbonate and calcium phosphate, effectively inhibit scale deposition such as barium sulfate and silica, anti-scalants and corrosion inhibition in industrial water systems
Aqueous dispersant XT-904	30%	Used as ceramic dispersant, slurry dispersant, water reducer, papermaking additives
Polyepoxysuccinic Acid (PESA)	CAS 51274-37-4 40%	Multivariate scale and corrosion inhibitor, good scale inhibition and dispersion for calcium carbonate, calcium sulfate, calcium fluoride and silica scale
Sodium of Polyaspartic Acid (PASP)	CAS 181828-06-8 40%	Environmentally friendly water treatment agent, the dual effect of corrosion and scale, also used for agricultural fertilizer synergist

Polycarboxylic Acid Antiscale and Dispersant

Chemical	Main Specification	Properties and Usage
Sodium of Polyacrylate XT-1100	47%-49%	Anti-scalants and dispersants. Its property is in accord with ACUMER 1100
Modified Polyacrylate Sodium XT-2000	42.5%-43.5%	Highly effective anti-scalants and dispersants. Its property is in accord with ACUMER 2000
Carboxylate-Sulfonate-Nonion Tri-polymer XT-3100	43%-44%	Anti-scalants and dispersants. Its property is in accord with ACUMER 3100
Silica and magnesium silicate scale Inhibitor XT-5000	44%-46%	Anti-scalants and dispersants. Its property is in accord with ACUMER 5000

High-effective Scale and Corrosion Inhibitor

Chemical	Main Specification	Properties and Usage
Scale and Corrosion Inhibitor XT-619B	30%	Composed of organophosphoric acid, polycarboxylic acid, sulfosalt copolymers, copper corrosion inhibitor, special surfactant, etc, it has good synergistic effect, with high corrosion inhibition ratio.
Scale and Corrosion Inhibitor for low hardness water XT-682	30%	Suitable for soften water and scale and corrosion inhibitor for low hardness water
High hardness water for scale and corrosion inhibitor XT-658	45%	Composed of organophosphoric acid, polycarboxylic acid, sulfosalt copolymers, copper corrosion inhibitor, special surfactant, suitable for high hardness water treatment
Nonstop Cleaning and Pretreatment Filming Agent XT-701	40%	Composed of chelator, detergent, dispersant and pretreatment filming agent, good function of cleaning and pretreatment filming
Deoiling Detergent XT-706	30%	Composed of chelator, cleaning agent, deoiling agent, dispersant and penetrating agent, good function of degreasing and descaling
Scale and Corrosion Inhibitor for Iron & Steel Plant XT-601	30%	Built with organophosphoric acid, polycarboxylic acid and carbon iron corrosion inhibitor, good function of chelating and dispersing, especially for carbon iron
Scale and Corrosion Inhibitor for Boiler XT-503B	40%	Advantages of fast cleaning, good effect, low corrosion rate.
Scale Inhibitor for Dusty Water XT-610	40%	
Scale Inhibitor for Oilfield Refill Water XT-607	30%	Used as scale inhibitor for pipeline of oilfield refill water
Scale Inhibitor for Barium and Strontium XT-607B	40%	Scale Inhibitor for Barium and Strontium

Corrosion Inhibitors		
Chemical	Main Specification	Properties and Usage
Corrosion Inhibitor for Hydrochloric Acid Cleaning	50%	A kind of imidazoline corrosion inhibitor, it can inhibit the black metal inhibition from hydrochloric acid, sulfuric acid and sulfaminic acid
1,2,3-Benzotriazole BTA(Na)	95-14-7,99%, 30%(Na)	Form a protective film on copper and other metals free from corrosion by air and harmful medium
2-Mercaptobenzothiazole MBT(Na)	149-30-4, 98%,50%(Na)	
Tolytriazole TTA(Na)	29385-43-1, 99%,50%(Na)	
Corrosion inhibitor for High temperature acidification XT-105	50%	Used in oil field, oil and gas well acidizing fracturing process which is suitable for the 15% - 28% hydrochloric acid soil, temperature is not higher than 180 °C