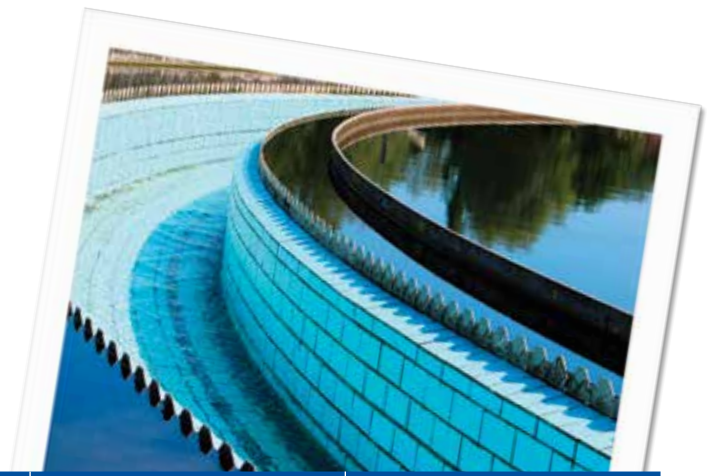


Enprox® Water Treatment Products



Products	Form	Use	Parameters	Comments
CATIONIC COAGULANTS				
PC-9000	Liquid Aluminum chlorohydrate with branched polyamine	Primary coagulant and co-precipitant	Dosage range must be determined; proportional to charge differential and solids concentration	Unique formulation effective in metals/solids removal; reduces sludge volumes and facilitates dewatering
Enprox 8407	Liquid Inorganic Mixed chloride solution	Primary coagulant; membrane compatible	Dosage range must be determined; proportional to charge differential and solids concentration	Effective in reducing sludge volumes as compared to traditional inorganic chemistries; membrane compatible; Al/Ca/Mg in composition
Enprox 8412	Liquid All inorganic Mixture of Al & Ca species	Primary coagulant or oily wastewater coagulant; membrane compatible	Dosage: 50–300 ppm for primary coagulant; dosage: 50–10,000 ppm for oily wastewater	Effective in reducing solids; completely inorganic in composition making it ideal for membrane filtration
Enprox 8416	Liquid Alum/inorganic metal precipitant solution	Primary coagulant or metal precipitant/polishing solution	Dosage: 100–300 ppm for primary coagulant; dosage: 10–100 ppm for polishing	Does not form metal sulfides; membrane compatible; very high affinity for oil and grease
Enprox 8423	Liquid Iron-based/polymer High molecular weight	Primary coagulant or metal precipitant/polishing solution; can be applied for paint detackification	Dosages will vary depending upon charge neutralization demand; effective on zinc and nickel containing wastewaters	Forms “microfloc” at pH 2–8; promotes rapid settling and dense floc formation
Enprox 8445	Liquid Alum-polymer blend	Neutralization and coagulation of suspended ions, oil splitting, and absorption of particulate	Dosage range will vary based upon the nature of the wastewater solids; medium molecular weight	Forms “microfloc” at pH 2–8; solids treated display enhanced coagulation, floc structure, size, and density
Enprox 8533	Liquid Unique, reacted product	Neutralization of ionic charge differentials, complex chelating agents and absorption of oil and grease	Dosage: 50–1,000+ ppm	Feed as a concentrate; unique, versatile formula for metal/solids removal; contains Al/Ca/Cationic polymer
ANIONIC POLYMERS (FLOCCULANTS)				
Enprox 8110	Liquid Emulsified Concentrate	Flocculates metal hydroxides; a concentrate for maximum efficiency	Dosage: A 0.1% solution as 400 milliliters per 100 gallons of make-up water; 32% charge density; add at 2–10 ppm	Will react quickly to flocculate metal hydroxides providing immediate settling in clarifiers and holding basins
Enprox 8439	Powder Polyelectrolyte	Flocculates metal hydroxides and neutralized solutions	Dosage: A 0.1 to 0.15% solution as 0.8 to 1.6 lbs. per 100 gallons of make-up water; 40% charge density; add at 2–15 ppm	Polymer that will react between pH 7–12 to form a dense hydroxide floc in clarifiers and holding basins
Enprox 8440	Liquid Polyelectrolyte Hydrated form	Flocculates metal hydroxides and neutralized waste solids solutions	Dosage will range from 20–200 ppm; 40% charge density; can be diluted at any percentage	Liquid anionic polyelectrolyte that will react between pH 7–12 to rapidly form dense floc in clarifiers and holding basins



Products	Form	Use	Parameters	Comments
METAL PRECIPITANTS				
Dispoz Aid 1	Powder Chrome reduction Inorganic reducing agent	Converts hexavalent chromium to trivalent chrome	pH 4.2 at 1% Dosage: 2 lb/1 lb of chromic acid	For treating spent chromate solution; use with Dispoz Aid 2 for chrome removal
Dispoz Aid 2	Powder Heavy metal removal	Precipitates trivalent chrome and heavy metals out of solution	pH 12.4 (concentrate)	Inorganic alkali used for precipitating trivalent chrome out of solution; used with Dispoz Aid 1
Enprox 5165	Liquid Inorganic sulfide Heavy metal precipitant	Precipitates and removes heavy metals from wastewater; complexes heavy metals down to <0.5 ppm levels; a main coagulant or polishing agent to existing systems	pH 13–14 (concentrate) Always add above a pH level of 8.0; dosage is based upon the metal loading of wastewater	Removes many heavy metals from spent solution including zinc, iron, nickel, copper, cadmium, lead, and aluminum
Enprox 8340	Liquid Organic Heavy metal precipitant	Precipitates and removes heavy metal from wastewater systems	Can be used at any pH from 2–14	Removes heavy metals from wastewater systems. Has a high affinity for copper, lead, and nickel ions
DEFOAMING AGENTS				
Enprox 8617	Liquid Defoamer Silicone-based	Foam control agent	Dosage: 20–100 ppm; contains dispersant for enhanced dispersion	Silicone-based, non-ionic; very effective vs. silicone-only due to dispersant additive
Enprox 8784	Liquid Defoamer Silicone-based	Foam control agent	Dosage: 20–200 ppm; non-ionic formulation	Siloxane/glycol-based, non-ionic defoaming agent
NEUTRALIZERS				
Enprox 702	Liquid Acidic neutralizer Inorganic	Neutralization of alkaline solutions	Titrate alkaline solution to determine amount required for neutralization	Acid for neutralizing alkaline solution and pH adjustment of recirculated cooling water
Enprox 714	Liquid Alkaline neutralizer Inorganic	Neutralization of acidic solutions	Titrate acidic solution to determine amount required for neutralization	Alkali for neutralizing acidic solution and pH adjustment of recirculated cooling water
EMULSION BREAKERS				
Dispoz Aid EB	Liquid Inorganic salt solution	Effectively splits spent oils or solvent emulsions	Titrate emulsion solution to determine amount required to effectively break emulsion	Mildly alkaline solution designed for easy oil/emulsion splitting
SPECIALTY DISPERSANTS				
Enprox 6122 (Adjunct)	Liquid Organic dispersant Bio-penetrator Surfactant-based	Cationic surfactant used to disperse oil and sludge in recirculating water systems	Organic formulation; dosage as required – typical: 0.1 to 1 gallon per 1,000 gallons of system volume	Designed for water systems, spray headers, and scrubber systems; enhances biocide effectiveness

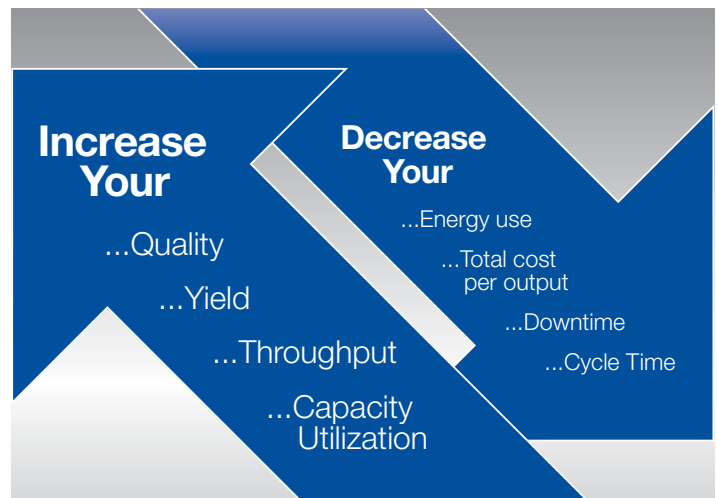


Products	Form	Use	Parameters	Comments
COOLING WATER TREATMENTS				
Enprox 811	Liquid Corrosion/Scale inhibitor for cooling towers	Controls scale and corrosion in open cooling water systems	Environmentally friendly; molybdate-based; dosage: 250–500 ppm	Designed for open water systems exposed to oxygen
Enprox 815	Liquid Corrosion/Scale inhibitor for closed loop water systems	Controls scale and corrosion in hot water and chiller water closed loop water systems	Environmentally friendly; molybdate-based; dosage: 1,000–2,000 ppm	State-of-the-art closed loop system formulation that combines dispersants with corrosion inhibitors
Enprox 6133	All organic Scale/Corrosion Sequestering agent	Controls scale and corrosion in open cooling water systems	All organic: Nonphosphate, nonmolybdate; environmentally safe; dosage: 100–300 ppm	Test via anionic surfactant; forms a slight foam layer on surface
BOILER WATER TREATMENTS				
Enprox BWT F	Liquid scale and corrosion All-in-one drum formulation	Prevents scale and corrosion in industrial water boilers; USDA approved for use in food processing plants	Dosage: 200–500 ppm	Prevents scale while scavenging excess oxygen; forms a film of corrosion protection on boiler internals; ideal for food processing plants
Enprox BWT 20	Liquid scale and corrosion dispersant All organic formula	Designed for maximum dispersancy – to be used as the internal treatment for larger boilers and/or boilers with heavy deposition	Organic polymer-based; dosage: 100–400 ppm; use 400 ppm for heavily fouled (scaled) systems	Complete internal scale and corrosion dispersant; must use a separate oxygen scavenger and a condensate treatment
Enprox BWT 27	Liquid scale and corrosion All-in-one drum formulation	Designed for plants with periodic hardness or elevated alkalinity in feed water make-up	Dosage: 50–200 ppm; internal organic phosphate level 2–10 ppm	Complete scale, corrosion, oxygen scavenging, and condensate return neutralization
Enprox OS 41 (Adjunct)	Liquid-based oxygen scavenger	Designed to control feed water sulfite levels at 20–60 ppm per ASTM Standards	Add at 30 ppm per every 1 ppm of feed water oxygen; boiler internal sulfite is controlled to 20–60 ppm per ASTM Standards	Complete oxygen scavenging of feed water and boiler internals; ideal for systems with iron-based corrosion
Enprox NA 63 (Adjunct)	Liquid condensate neutralization treatment DEAE-based Multi-functional for short, middle, and long return line runs	Designed to control condensate return pH buffering to 7–10 pH units	Add at 4 ppm per every 1 ppm of feed water alkalinity; control condensate return at 7–10 pH	Provides for complete carbonic acid neutralization of return lines
Enprox NA 67 (Adjunct)	Liquid condensate neutralization treatment; triple amine formula DEAE-, Morpholine and Cyclohexylamine- based; multi-functional for short, middle, and long return line runs	Designed to control condensate return pH buffering to 7–10 pH units	Add at 6 ppm per every 1 ppm of feed water alkalinity; control condensate return at 7–10 pH	Provides for complete carbonic acid neutralization of return lines

*Check with product manager or Chemetall Environment, Health, and Safety for state registration.

Products	Form	Use	Parameters	Comments
BIOCIDES & SANITIZERS*				
Biocide MC 68 WT	Liquid Isothiazolin	Microbial control in recirculating water systems	Dosage: See instructions on container label	Non-foaming liquid for controlling algae, fungi, bacteria, and biofilms in recirculating water
TowerBrom 60M	Granular form Bromine and sodium Dichloroisocyanurate	Microbial control in recirculating water systems	Dosage: See instructions on container label	Ideal for shock treatments; high solubility allows for an entire shock dosage to be added almost instantaneously
TowerBrom 90M	Solid tablet form Bromine and sodium dichloroisocyanurate	Microbial control in recirculating water systems	Dosage: See instructions on container label; feed using a standard tablet feeder	Performs best when used on a low level, continuous feed basis

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