



*Superior Solutions*

# Water Treatment

Products and technologies for industrial use  
for over seventy-five years



**Water  
Treatment**



# the problem

How often have you considered your plant's water impact and the ongoing daily nature of problems you may be experiencing from plant down time, production losses, efficiency issues and ongoing maintenance bills?

Chances are the cooling towers, boilers, heat exchangers, and other assets are being considered and this is a common issue in daily meetings.

## BOILERS

Steam generators are the vital core of an industrial or institutional site as they produce and distribute energy to processes and services throughout the facilities. This also comprises aspects related to safety and economical optimization, hence the need for a reliable, top quality partner in water treatment.



PRODUCT	ACTIONS					DOSAGE (ppm)	REMARKS
	Anti Scale Dispersant	Alkalizing	De-alkalizing	Oxygen scavenging agent	Corrosion inhibiting (condensation line)		
BOILER DEMI	**	**		Catalized Sulphite		50-150	makeup < 50 ppm
BOILER 3	**	*		Catalized Sulphite		50-150	makeup 50-70 ppm
BOILER SOFT	***		**	Catalized Sulphite		50-150	makeup > 70 ppm
BOILER DEOX HP			*	Ascorbate		30-70	
BOILER DEOX STEAM		*		DEHA	DEHA	20-50	
STEAM CONTROL 10		*			3 Amines	30-70	
BOILER SPERSE	****	***				20-30	makeup high hardness
BOIL-CARE PAC	**	*		DEHA	Morpholine	50-150	



## SANITARY WATER

When drinking water is fed into a sanitary water system, its hardness, together with high boiler temperatures, may lead to scale and rust formation. This causes an increase in energy consumption as well as additional costs related to extraordinary cleaning operations. Furthermore, water may carry pathogenic microorganisms, which may represent a serious health hazard. Zep offers a vast array of products and equipment developed to help customers optimize their consumption of chemicals.

PRODUCT	FEATURES	APPLICATIONS	DOSAGES
SILPHOS DW	Antiscale and corrosion inhibitor	Specially indicated for hot and cold water to prevent scale and protect from corrosion	20-50 ppm
CHLOR 5 SW	Chlorinated sanitizer	Hot and cold water sanitization specially indicated in Legionella control	0,5-1 ppm

# the solution

At Zep, we fully understand that help is needed and all industry is reliant on water for all levels of production. It can be used as a raw material, solvent, coolant, transport agent, and energy source. Industrial reliance on water makes it essential to preserve it, monitor its impact, and make sure water pollution is kept at minimal levels. Our years of experience come through complete water diagnostic solutions utilizing our knowledge in the field, strong client relations, and a superior product range to match whether it be preventive maintenance, process, quality or wider water issues to maintain peak plant performance and ensure asset integrity.

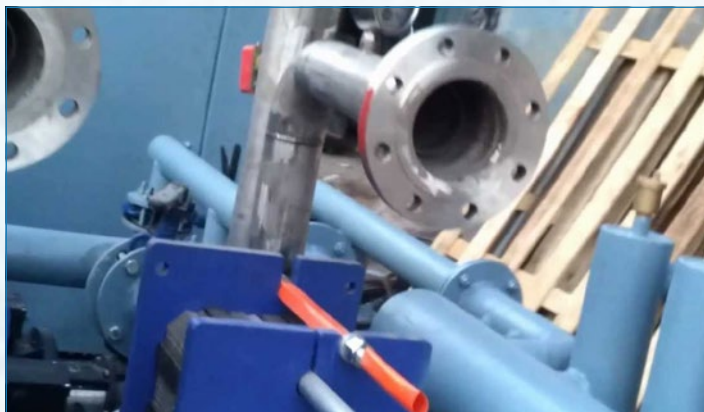


## COOLING TOWERS

Scaling, corrosion and microbiological proliferation can greatly reduce a cooling tower's ability to exchange heat. Poor cooling tower efficiency greatly affects a company's bottom line, making it important to choose the right preventive treatment. Zep offers a solution geared to optimizing cooling tower performance.



PRODUCT	ANTISCALE AGENT				ANTISCALE ACTION	CORROSION INHIBITING ACTION (COPPER)	DOSAGE (PPM)
	HEDP	AMP	PBTC	MALEATES			
TOWER L MARK	✓	✓		✓	**	**	20-100
TOWER 25 MARK			✓	✓	***	***	10-50
BIOTOWER 24 MARK	✓	✓		✓	*	*	30-150
PRODUCT	BIOCIDE		APPLICATIONS				DOSAGES
BIOCONTROL 5	CMIT-MIT		Broad spectrum biocide for cooling towers and closed loops				10-300 ppm
BIOCONTROL 20	QUAT		Broad spectrum biocide for cooling towers and closed loops				10-300 ppm



## CLOSED LOOP SYSTEMS

In closed loop systems, water is recirculated, absorbing or releasing heat. Such systems are characterized by little or no makeup. In order to maximize heat exchange, an effective treatment must prevent corrosion, microbiological fouling, and, in systems which feature some degree of makeup, scale formation. Zep experts analyze the closed loops, define objectives together with the customer, and offer the adequate solution.

PRODUCT	FEATURES	APPLICATIONS	DOSAGES
LOOP 10 PLUS	Nitrite-free corrosion inhibitor and dispersant	Corrosion prevention treatment for iron loops	1-2%
LOOP SOFT METAL FG	Food grade corrosion inhibitor and dispersant suitable for soft metals	Corrosion prevention treatment for aluminium and copper loops. Ideal for the food industry	1-2%
LOOP CLEAN	Alkaline dispersant	Gradual removal of rust, mud and organics in new and old loops	2-5%
LOOP -37	Ethylene glycol based corrosion inhibitor and anti-freeze	Corrosion prevention and anti-freeze action (50% dilution protects up to -37 °C)	20-50%
LOOP -37 FG	Food grade propylene glycol based corrosion inhibitor and anti-freeze	Corrosion prevention and anti-freeze action (50% dilution protects up to -37 °C). Ideal for food plants	20-50%
X-SCALE	Concentrated scale remover with ph-indicator built in	Fast removal of lime and rust	2-5%





With over 75 years experience in the international market and 1,000,000 customers served, Zep is a worldwide leader in maintenance chemicals.

Every year Zep invests in the R&D of new products and equipment in order to deliver state-of-the-art, environmentally friendly solutions geared to any aspect of maintenance.

The Zep sales reps, together with our technical department constantly provide professional, personalised assistance to our customers, guaranteeing tailored solutions to the different maintenance needs.

**INDUSTRY** Speciality chemicals for industrial maintenance

**WATER TREATMENT** Products and systems for closed circuits, cooling towers and steam generators

**FOOD & BEVERAGE** Hygiene and sanitation products for the food industry, HACCP

**INSTITUTIONAL** Products and systems for maintenance needs of hotels and communities

**PROFESSIONAL CLEANING & MAINTENANCE**

**PAPER & SAFETY EQUIPMENT** Paper and consumables for civil and industrial use

**TRANSPORTS** The complete range for the maintenance of vehicles

**BUILDINGS & CONSTRUCTION** All the solutions for the construction industry

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