

**QUESTIONNAIRE FOR WATER TREATMENT OF COOLING SYSTEMS**

Date ..... Company name .....

Address ..... Contact person .....

Phone ..... E-mail .....

Plant name / reference .....

Industry .....

**System details**

System volume *m3*: ..... Re-circulating rate *m3/h*: ..... Evaporation loss *m3/h*: .....

Blow down *m3/h*: ..... Delta T °C ..... Actual cycles of concentration: .....

**System metallurgical info:**     Carbon steel     Copper/Copper Alloys     Aluminum

Stainless Steel, 304 or 316 L or any other  
*(in case of SS metallurgy, please specify max Cl limit allowable per manufacturer)*

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Any other

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**Make up water source:**     Brackish / well water     Surface water     Softened water

RO/Demineralized/Desalinated water     City water

Make up water rate *m3/h*: ..... Operating temperature °C: .....

**Pipe work**

Cooling water velocity *m/s*: ..... Side stream filter: .....

**Contaminants:**

..... <i>(atmospheric contaminant of recirculating water)</i>	..... <i>(process contamination of cooling water)</i>	..... <i>(bacteriological problems in recirculating water)</i>
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**Pretreatment method for make up water:**

Traditional sedimentation process     Filtration

Chlorination, or any oxidation/microbiological treatment

Ion exchange like Sodium Zeolite or Demineralization

City water/ Water supplied by municipality

RO     Treated waste water     No pretreatment

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### Present chemical treatment

Where possible, please attach the technical and safety data sheets

Function	Producer	Product name	Dosing (ppm)	Consump. (kg/month)
Corrosion inhibitor				
Scale Dispersant / Anti Foulant				
Biocide				
Biodispersant				
Acids				
Other				

### Water Analysis

**Please provide:** a simplified flow sheet of the total plant and complete water analysis.

	Make-up water	Blowdown / Recirculating water
pH		
m-Alkalinity, ppm CaCO <sub>3</sub>		
Ca hardness, ppm CaCO <sub>3</sub>		
Mg hardness, ppm CaCO <sub>3</sub>		
Chloride, ppm		
Silica, ppm		
Sulfate, ppm		
Iron, ppm		
Copper, ppm		
Conductivity, μS/cm		