



# Cooling Water Treatment

With care for the environment

Kurita is your competent partner for comprehensive solutions – our sales and technical service representatives provide you locally with reliable tailor-made solutions for your cooling systems.

We take the continuous improvement of your plant availability to heart. Our aim is to support you reducing water and chemicals consumption, focusing on environmental respect and sustainability. For good reasons Kurita is already for ten years one of only 30 enterprises which are listed in the „NAI“ (Nature-Stock-Index).

## OUR COMPREHENSIVE SERVICE INCLUDES:

- System survey and system analysis
- Development of customised treatment concepts
- Analytics (on-site and in own laboratories)
- Remote control, online data transfer
- Cleaning of water and process plants
- Training of your staff
- Consulting for plant optimisation, design and equipment choice
- Logistics (transport & stock management)

### HEADQUARTERS GERMANY NORTH, CENTRAL & SOUTH EAST EUROPE

Kurita Europe GmbH  
Giulinistraße 2  
DE-67065 Ludwigshafen  
☎ +49 621 1218 3000

### FRANCE, LUXEMBOURG & NORTH AFRICA

Kurita France SAS  
53 Rue de l'Étang, Bât. A  
F-69760 Limonest  
☎ +33 478 43 42 50

### GREECE

Kurita Europe GmbH  
11 Korinthou st.  
GR-144 51 Metamorfofi  
Athens  
☎ +30 210 28 37 559

### IBERICA

Kurita Iberica SL.  
Av. Alcalde Barnils, 64-68  
Bloque B, Planta 2ª, Local 4  
E-08174 Sant Cugat del Vallés  
Barcelona  
☎ +34 93 675 0345

### ITALY

Kurita Europe GmbH  
Filiale Italia  
Via Piero e Alberto Pirelli 6  
I-20126 Milano  
☎ +39 02 295 164 53

### POLAND, ROMANIA, BALTICS, UKRAINE & BELARUS

Kurita Polska Sp.z.o.o.  
ul. Uniwersytecka 13  
PL-40-007 Katowice  
☎ +48 32 700 25 65

### SLOVAKIA

Kurita Polska Sp.z.o.o.  
Organizačná zložka  
Bajkalská 22  
SK-821 09 Bratislava  
☎ +421 2 53 41 89 68

### SWEDEN & SCANDINAVIA

Kurita Sverige AB  
Marieholmsgatan 56  
SE-415 02 Göteborg  
☎ +46 31 725 34 60

### TURKEY

Kurita Turkey Kimya A.Ş.  
Tugayyolu cad. Ofisim İstanbul  
Plazalan No:20 B Blok Kat 4  
Daire 23  
TR-34846 Maltepe İstanbul  
☎ +90 216 450 08 62

### MIDDLE EAST REGION

Kurita Middle East FZE  
Office 1010, Floor 10  
Jafza One, Jebel Ali Free Zone  
P.O. Box 263958  
AE-Dubai  
☎ +971 4 884 49 90



[www.kurita.eu](http://www.kurita.eu)  
[info@kurita.eu](mailto:info@kurita.eu)

The information presented herein corresponds to our interpretation of certain test results and field experience to date. This information is not to be taken as warranty or representation for which we assume legal responsibility. It is offered solely for your consideration, investigation and verification. (201902)

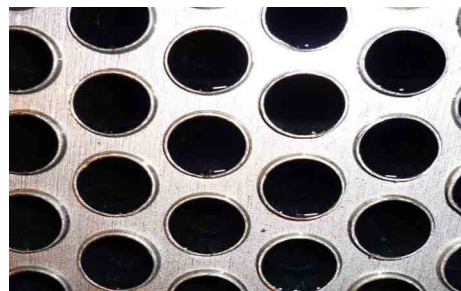


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With care for the environment



# For a complete control of your cooling system



Kurita is one of the global market leaders in industrial water and process treatment. With more than 60 years experience, we provide you with state-of-the-art solutions, tailored to the specific needs of your cooling systems.

## BENEFITS

With our technologies we help you:

- REDUCING OPERATION COSTS
- INCREASING PLANT PRODUCTIVITY
- MAXIMISING PLANT LIFECYCLE
- OPTIMISING PLANT AND OCCUPATIONAL SAFETY

The challenges of a cooling water system cannot be considered separately, since they are interdependent. Therefore, Kurita offers a complete concept, based on the combination of different treatments.

### CORROSION INHIBITION

A perfect corrosion inhibition for open and closed cooling water systems not only includes the selection of the right corrosion inhibitor but also the control of all relevant water parameters. Kurita's precisely adjusted treatment concepts and efficient monitoring systems care for an optimised conditioning of your system, preventing it from serious and expensive damages.

### SCALE INHIBITION

With our wide range of antiscalants and dispersants your cooling water system is effectively protected against scaling, slime deposits and other materials reducing the performance of your plant. One of the main benefits of the Kurita products is their extraordinary dispersion effect on iron and solids. Deposits and mineral scaling are prevented completely and an unhindered heat transfer to the heat exchanger is ensured. Our products further eliminate the risk of under deposit corrosion.

### CONTROL OF MICROBIOLOGY

Kurita offers a large quantity of oxidising and non-oxidising biocides to prevent biofilm formation and biofouling from occurring. Our approved biocides and special technologies against pathogenic microorganisms, in particular legionella optimise the occupational safety.

## Technologies, Features and Applications

SCALE & CORROSION INHIBITORS AND DISPERSANTS	<ul style="list-style-type: none"> <li>• Phosphorus-containing and phosphorus-free treatments</li> <li>• Biodegradable products for a low environmental impact</li> <li>• Dispersants to prevent fouling and sedimentation of suspended solids</li> <li>• Biodispersants, for a better efficiency of biocide treatments</li> <li>• Specific treatments for pit water, once-through systems, sea water or recycled waste water as make-up water</li> </ul>
SPECIAL CORROSION INHIBITORS	<ul style="list-style-type: none"> <li>• Organic and inorganic formulations</li> <li>• Applications over a wide pH range</li> <li>• Specific alkaline treatment for very aggressive, softened or desalinated water</li> <li>• All in one treatments for closed cooling systems</li> <li>• Brass &amp; aluminum corrosion inhibition</li> <li>• Products to control pitting, under deposit and microbiologically influenced corrosion (MIC)</li> </ul>
BIOCIDES*	<ul style="list-style-type: none"> <li>• Approved biocides against legionella pneumophila</li> <li>• Oxidising and non-oxidising biocides for the control of bacteria, fungi and algae (e.g. mobile chlorine dioxide unit, ozone, Dilurit GM System)</li> <li>• Specific biocides with rapid microbiocidal effect and quick decomposition after use in the cooling system</li> <li>• Biocides for preventive and curative treatments</li> </ul>
CLEANERS	<ul style="list-style-type: none"> <li>• Wide range of cleaners for the removal of scale, metal oxides, deposits, oil, mud: compatible with steel, stainless steel, galvanized steel, copper alloys, aluminum</li> </ul>
FLOCCULANTS	<ul style="list-style-type: none"> <li>• Coagulants and flocculants for the preparation of make-up water</li> <li>• Optimisation of lime softening</li> <li>• Side stream filter conditioning</li> </ul>
EQUIPMENT	<ul style="list-style-type: none"> <li>• Control of biofilm with HydroBio®: a unique field test kit to measure biofilm growth and optimise the dosage of biocide</li> <li>• Equipment for online control of our products, our biocides and the main water parameters (e.g. Kuriauto IDC)</li> <li>• Equipment for operation of cooling systems (e.g. blow down control, special dosing programmes)</li> <li>• Equipment for online monitoring of key performance indicators like corrosion rate, scaling tendency and biofilm growth</li> </ul>

\* Use biocides safely. Always read the label and product information before use.