



KUVARS CHEM

CLEANING AND PROTECTION CHEMICALS FOR HEATING AND COOLING SYSTEMS

Company Profile

Since 2003 · Ankara · Almaty · Dubai

WHO WE ARE

Manufacturer and applicator since 2003

Kuvars Chem is the international brand of Kuvars Kimya, a Turkish R&D manufacturer of cleaning and protection chemicals for HVAC, boiler and cooling tower systems. We develop the formulations in our Ankara laboratory, produce them in our own facility and apply them with our own technical team. In the UAE, Kuvars Chem supplies and applies the products from Dubai.

Since **2003**

R&D and manufacturing

250+

Projects delivered

11

Specialty products

23

Technical services



THE PROBLEM

Scale, corrosion and biofilm cost energy and equipment life

01 Scale

Deposits on heat transfer surfaces raise energy use. US DOE data: 0.8 mm of iron- and silica-bearing scale can raise boiler fuel use by up to 7%.

02 Corrosion

Untreated water attacks pipework, exchangers and boiler plates, and shortens equipment life.

03 Biofilm

Microbial growth in cooling towers and process water insulates surfaces and leads to microbiologically induced corrosion.

10–40% energy savings recorded on our reference projects after chemical cleaning

Source: US Department of Energy, Steam Tip Sheet #7.



Scale
mineral layer
on the wall



Corrosion
rust and pitting



Biofilm
microbial layer

Four principles behind every job

01 Efficiency

We remove scale and fouling to restore heat transfer and design capacity.

10–40% energy savings on reference projects

02 Protection

Inhibitor-enhanced, metal-safe descaling with NANO CLEAN and NANO CLEAN NR, then molybdate- or phosphate-based protection with the NANOSAFE series.

Separate chemistry by metal type

03 Safety

NANOSAFE X 200 HAL is formulated in compliance with FDA criteria for food and dairy steam. NANOSAFE BIOCID provides microbial and biofilm control for cooling towers and process water.

Food-contact steam: NANOSAFE X 200 HAL

04 Documentation

A technical data sheet for every product and a signed work record for every service.

TDS for all 11 products at kuvarschem.com/resources

PRODUCTS

Cleaning, descaling and neutralisation

CLIMA CLEAR

Heavy-duty alkaline cleaner for HVAC coils, chillers and air handling units.

NANO CLEAN

Inhibitor-enhanced acidic descaler for copper, aluminium and mixed-metal systems; also the cleaning step in pre-commissioning flushing.

NANO CLEAN 100

Industrial acidic cleaner for steel and cast-iron boilers, steam generators and pipelines.

NANO CLEAN NR

Neutralisation chemical that restores system pH after chemical cleaning.

Product details and technical data sheets: kuvarschem.com/products



PRODUCTS

Protection, microbial control and leak sealing

NANOSAFE X

Molybdate-based corrosion and scale inhibitor for closed-loop heating, cooling and hot water systems.

NANOSAFE X 200 HAL

Phosphate-based steam boiler treatment for food and dairy plants, formulated in compliance with FDA criteria.

NANOSAFE X 400 DC

Molybdate-based dispersant for open-circuit cooling towers under heavy fouling; treated make-up water required.

WTR RESIST

Silicate-based sealer for micro-leaks in closed-loop piping, pools, terraces and subfloors, applied from inside without dismantling or excavation.

NANOSAFE X 100

Molybdate-based treatment for steam boilers, steam generators and closed-loop heating.

NANOSAFE X 300

Phosphate-based treatment for chiller, AHU and fancoil water circuits.

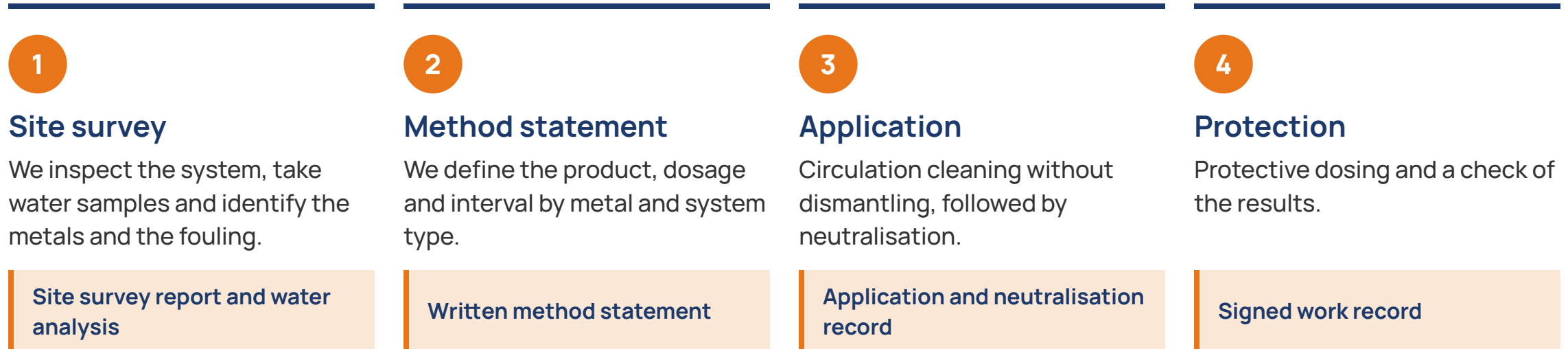
NANOSAFE BIOCID

Broad-spectrum biocide for microbial and biofilm control in cooling towers, process water and industrial circuits.

Product details and technical data sheets: kuvarchem.com/products

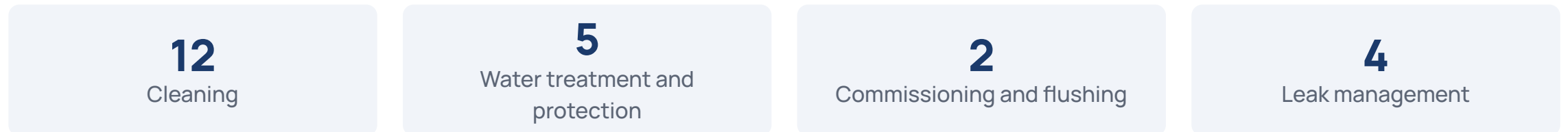


One team from site survey to work record



A technical data sheet for every product used.

23 TECHNICAL SERVICES IN FOUR CATEGORIES



Service details: [kuvarschem.com/services](https://www.kuvarschem.com/services)

REFERENCES

250+ projects since 2003

Healthcare

Kocaeli City Hospital · Ankara
Etlik City Hospital · Beyhekim
State Hospital · Istanbul Med Live
Hospital

Industry and aerospace

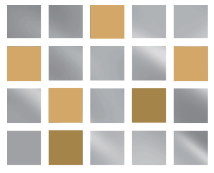
TAI Helicopter Wing Test Facility ·
Petlas Factory · Beyçelik
Gestamp · Hoffmann Aluminium,
Kazakhstan · Defence facilities
(names on request)

Commercial and hospitality

InterContinental Almaty · Esentai
Mall, Almaty · Talan Towers,
Astana · Piazza Mall · YDA Center,
Ankara

Food and beverage

Pladis Kazakhstan · Rakhat
Confectionery Factory, Almaty ·
Kay Dairy Factory



TALAN TOWERS



Full reference list by sector: kuvarschem.com/references



NEXT STEP

Request a site survey

Send us your system type and the problem you see. We reply within 24 hours on business days.

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Product Catalogue

Technical data sheets

kuvarschem.com/resources