



# WASTEWATER TREATMENT AND PURIFICATION

SOLUTIONS AND TECHNOLOGIES





## WATER PURIFICATION

Pragma Chimica is the ideal partner for wastewater treatment, recovery, and purification.

The professionalism and experience acquired over the years are dedicated to solving problems related to the environment and its preservation.

We specialise in the design, construction and management of industrial water purification plants.

The main treatment processes offered by Pragma Chimica are summarised below:

- Chemical-physical-biological treatment plants
- Membrane plants (SBR - MBR - MBBR)
- Biofiltration
- Ultrafiltration/reverse osmosis (UF/RO)
- Zero discharge solutions
- Resin/media filter solutions
- Electrocoagulation



## INDUSTRY 5.0

Pragma Chimica offers its clients attentive technical assistance and **remote monitoring** of plants with a remote control system.

Our continuous research and development activity enables cutting-edge plant solutions for every type of industry, meticulously addressing every technical aspect of the purification process.

## CHEMICAL PRODUCTS FOR PURIFICATION

Pragma Chimica offers the **widest range** of water treatment products:

### BASE CHEMICALS

- Anionic/cationic
- Coagulants
- Superabsorbents
- Complexants

### ADSORBENT MATERIALS

- Activated carbons
- Spent carbon reactivation
- Anthracite
- Pyrolusite
- Quartz sands
- Zeolites
- Resins for PFAS removal

### BIOTECHNOLOGIES

Enzymatic-bacterial mixtures for the treatment of:

- Sludge
- Industrial waste
- Civil wastewater
- Aerobic and anaerobic treatments

### SPECIAL PRODUCTS

- Defoamers
- Biological desodorisers
- Biomass nutrients



## HYDROGEN SULPHIDE ODOURS

Pragma Chimica offers **preventive solutions** against hydrogen sulphide and the resulting odour pollution.

This solution includes a full range of services:

- On-site diagnosis to identify the source of hydrogen sulphide
- Preventive treatment
- Dose monitoring.



## PRAGMA CHIMICA'S SOLUTIONS

Pragma Chimica's research and development department is at your complete disposal for developing products and new technologies for the proper management of wastewater treatment plants.



- ✓ Technologies for ecologically sustainable water treatment
- ✓ Revamping of wastewater treatment plants
- ✓ Consulting on development and design of new plant solutions
- ✓ Remote control
- ✓ Odour removal caused by hydrogen sulphide



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