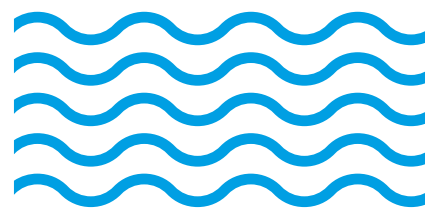
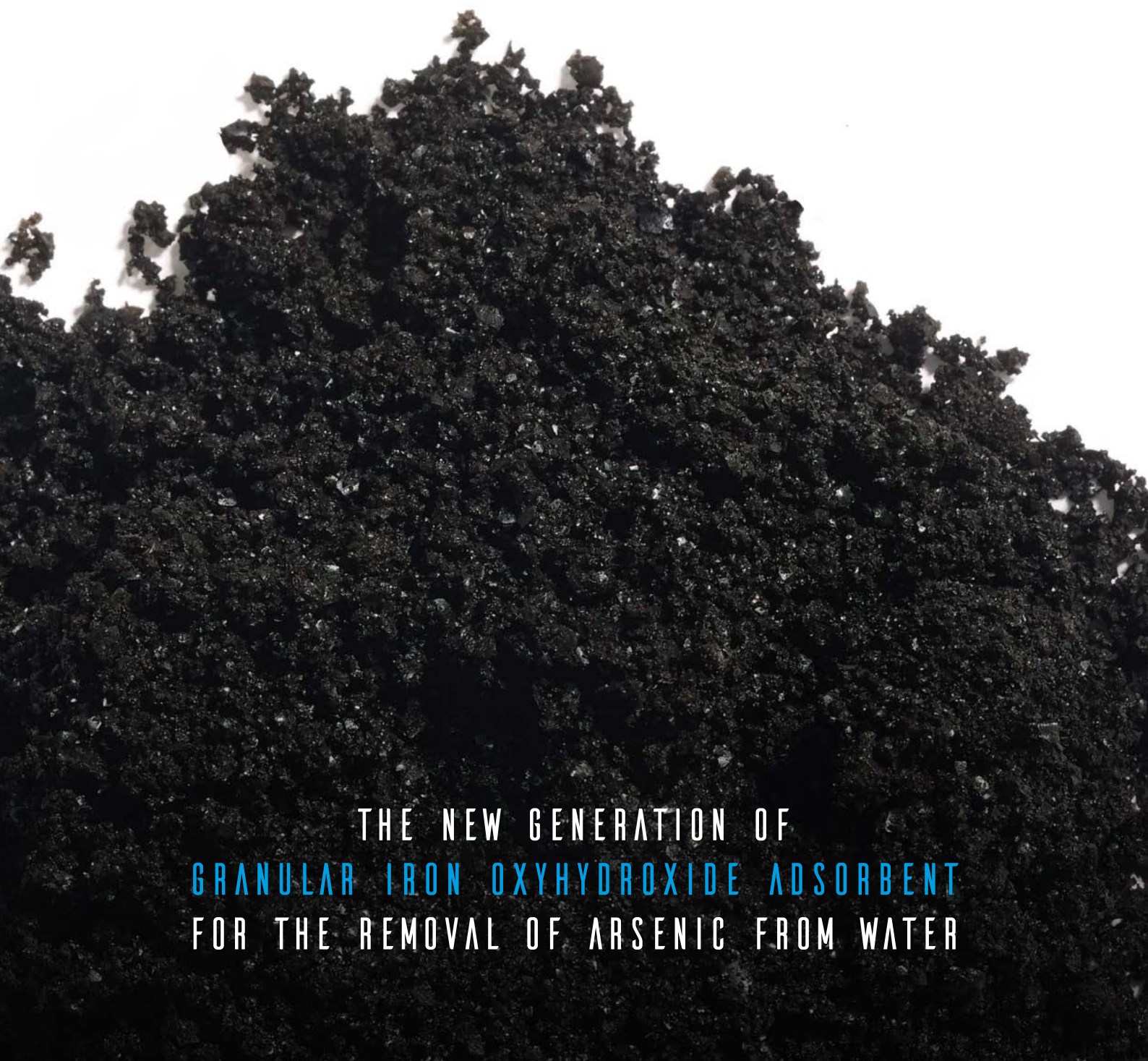


P V R A[®]



technology



THE NEW GENERATION OF
GRANULAR IRON OXYHYDROXIDE ADSORBENT
FOR THE REMOVAL OF ARSENIC FROM WATER



WATER IS OUR RAW MATERIAL,
EXPERTISE IS OUR ADDED VALUE.

ITALIAN INNOVATION FOR WATER FILTRATION

PVRA® Technology is a next-generation granular adsorbent material based on iron oxyhydroxide, conceived, patented and manufactured entirely in Italy. Its **higher adsorption capacity** means your plant treats more water, more reliably, with the same volume of filtering material.



HOW IT WORKS

- 1. Contaminated water:** spring water or wastewater containing a variable combination of pollutants at different concentrations, compromising its quality and safety.
- 2. Filtering material:** granular ferric hydroxide PVRA® with the higher adsorption capacity among materials of this kind on the market.
- 3. Drinking water:** treated water suitable for human consumption, obtained through efficient processes designed to optimize treatment performance and resource use.



A HIGH-PERFORMANCE SOLUTION FOR TREATING DRINKING WATER AND INDUSTRIAL PROCESS WATER.

PVRA® Technology is continuously analyzed and tested through internal research activities aimed at **enhancing its performance** and ensuring increasingly high standards of quality and efficiency. These analyses and experimental activities are not limited to improving the existing solution but also explore new application areas, paving the way for innovative opportunities and a broader, more versatile use of the technology developed.





Removes

Arsenic, Phosphates, Vanadium, Antimony, Selenium, Molybdenum, Uranium, Lead, Chromium.



High Adsorption Capacity

It has the higher filtration capacity among materials of this type available on the market.



High Efficiency Systems

Allows the design of plants that do not require high doses of chemical products.



Simple and Economical

Suitable for low-energy or gravity-driven filtration systems.



TWO OPTIMIZED FORMULATIONS TO MEET DIFFERENT TREATMENT PRIORITIES

PVRA® Technology is developed for applications that demand precision, effectiveness and reliability. It was created to meet the needs of those operating in complex sectors such as water treatment and **high-demand industrial processes**, where performance requirements are combined with safety and operational continuity. Every batch is supported by a technical data sheet, safety data sheet and usage protocols.

To meet different operational priorities, PVRA® Technology is available in two optimized formulations, **PVRA® REG** and **PVRA® 4.4**.



P V R A ^{REG}

BROAD-SPECTRUM ARSENIC FILTRATION

Removes **arsenic**, phosphates, vanadium, antimony, selenium, molybdenum, uranium, lead and chromium. Fully compliant with **DIN EN 15029:2012** for drinking water treatment. The reference choice for wide-ranging protection.

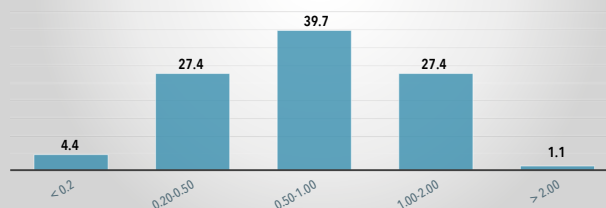


P V R A^{4.4}

FILTRATION WITH REDUCED BACKWASH VOLUME

Removes the same range of contaminants, with a selected, **low-dust granular composition** that extends operating cycles: fewer stoppages, lower costs. The reference choice when uptime is the priority.

PVRA® 4.4 - TYPICAL GRAIN SIZE DISTRIBUTION
% vs grain size (mm)





ITALIAN CHEMICAL EXCELLENCE

PVRA® is developed and manufactured in Italy, in compliance with the strictest quality standards.

It holds NSF/ANSI/CAN 61 certification for drinking water use and is registered under Regulation (EC) No. 1907/2006 (REACH), thus ensuring high levels of safety, reliability and environmental compatibility.





END-TO-END TECHNICAL SUPPORT AND CUSTOMER ASSISTANCE

Our team of chemists and engineers supports the customer throughout every stage of the project, from initial analysis to final fine-tuning on-site. Through a **tailored** approach, we assess the specific needs of each application, define the appropriate sizing of the proposed solutions, and carry out thorough testing to validate their effectiveness under real operating conditions.

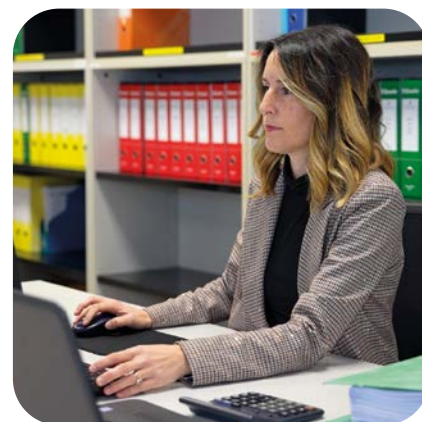
Our goal is to ensure not only **effective, high-performance solutions**, but also **continuous optimization** over time, adapting to evolving production processes and customer needs.



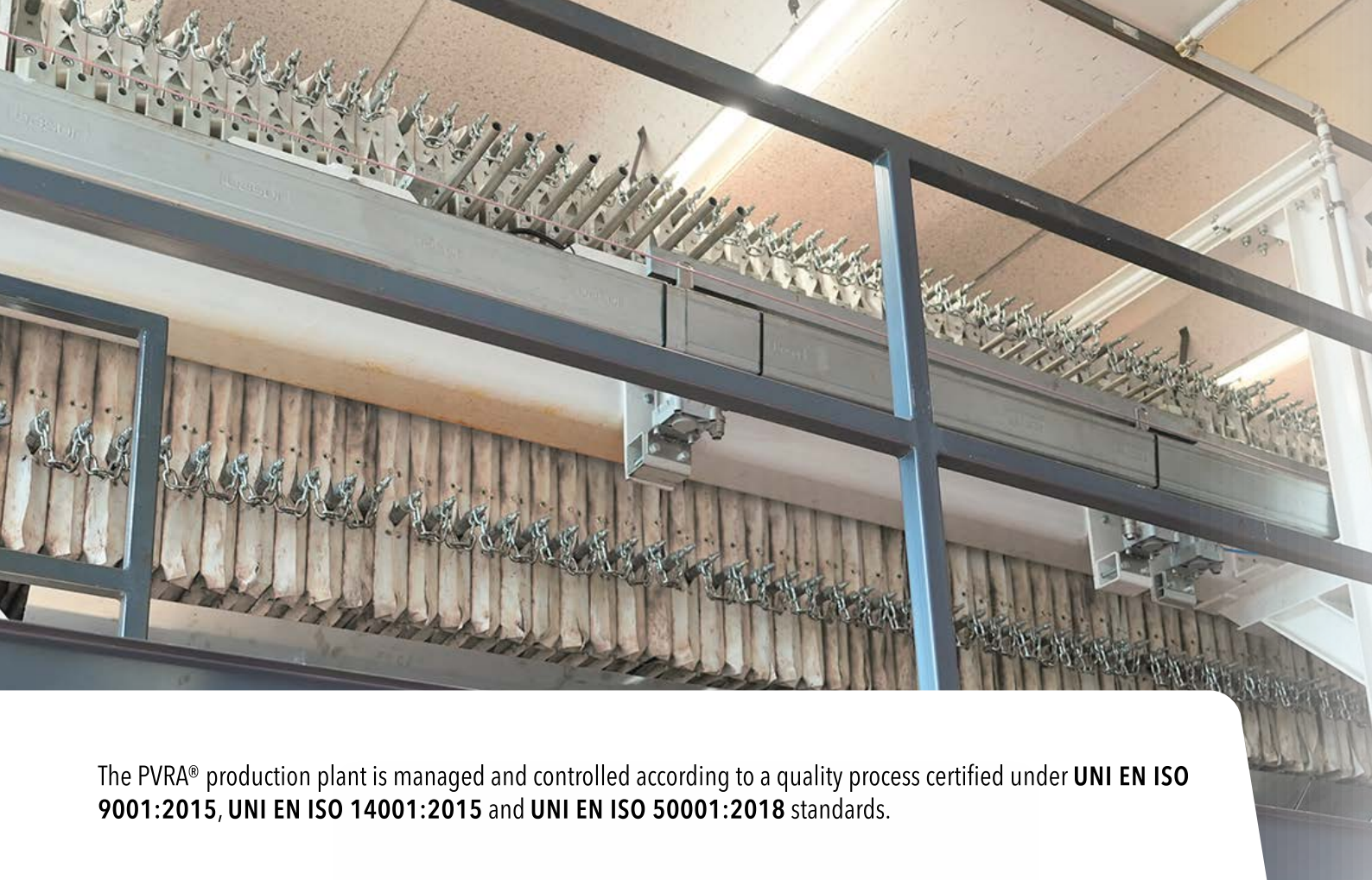
CONSULTANCY



OPTIMIZATION



AFTER-SALES



The PVRA® production plant is managed and controlled according to a quality process certified under **UNI EN ISO 9001:2015**, **UNI EN ISO 14001:2015** and **UNI EN ISO 50001:2018** standards.



PVRA® is supplied in **FIBC big bag** containers of about 1000 kg or, upon request, in 25 kg bags. The product is not subject to degradation and can be stored for at least one year. The material should never dry out completely (e.g. should not be exposed to sunlight).



All PVRA® big bags feature a **security seal** that provides visual confirmation that our quality checks have been passed, ensures product integrity from the plant to the destination, and enables full traceability through sequential numbering for every shipment.





APPLICATIONS

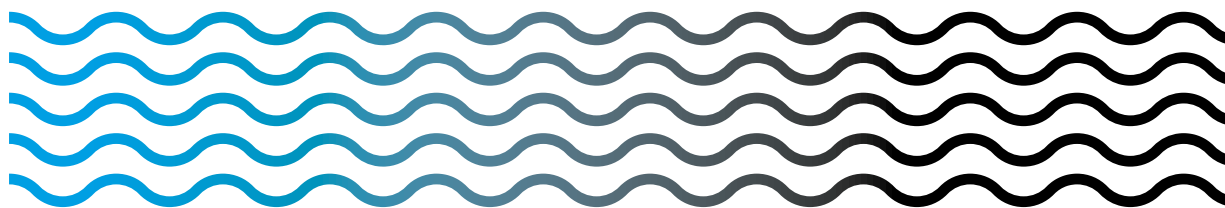
PVRA® is designed for **industrial fixed-bed** or **fluid-bed filtration systems** in highly complex operational contexts. Its versatility makes it ideal for integration into existing plants or new engineering projects.

In **industrial processes**, it guarantees compliance with environmental standards and protects equipment from harmful impurities. In **drinking water treatment**, it ensures maximum purification efficiency and public health protection. It is also used in **municipal networks** and **small-scale plants**, providing consistent and sustainable performance.

- Production of drinking water from groundwater
 - Treatment of table water and mineral water
 - Treatment of spring water and thermal water
 - Urban wastewater purification
 - De-arsenification of irrigation water
- Water treatment for the food industry
 - Preparation and treatment of process waters
 - Industrial wastewater purification
 - Leachate treatment (landfill)
 - Phosphate and silicate removal in RAS systems



SAFE
DRINKING
WATER



PVRA®



PVRA® is a trademark of:


ACQUANOVA
RESEARCH. DEVELOPMENT. SOLUTIONS

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