

# CHEMICAL CLEANING



Veolia helps its industrial customers minimise downtime and maximise process efficiency while controlling costs and protecting workers through safe, effective and efficient chemical cleaning and decontamination programs.

By applying decades of innovation and insight, we utilise technically advanced, cost-effective chemical cleaning solutions to quickly and efficiently dissolve and break down contaminants inside your piping, cooling water systems, boilers, tanks and reactors.

Veolia works to develop the optimum cleaning circuits; this includes determining the right chemistry and equipment for clean, safe decontamination covering all system areas including those inaccessible by other cleaning methods.

## FEATURES AND BENEFITS

- A fully contained chemical cleaning system prevents release of hazardous contaminants
- Improved efficiency - faster and more intensive dissolution of chemicals
- Safer and technologically advanced solutions, with up to a 90% improvement in cleaning times
- Removes the need for manned entry and human exposure
- Eliminates the requirement to fully isolate plant or equipment and can be cleaned while online
- Ability to clean areas of plant and assets otherwise inaccessible by other cleaning methods

## INDUSTRIES WE SERVE



Mining



Oil & Gas



Energy



Manufacturing



Local & State Government



Industrial & Commercial

## WE'RE COMMITTED TO EXCELLENCE

always **safe**

This is demonstrated in our Always Safe mantra, and accreditations across a range of standards, including; ISO9001, ISO14001, ISO 45001 and compliance to ISO 31000

## SOLUTIONS AND SERVICES



### VESSEL DECONTAMINATION AND CLEANING

Our advanced chemical decontamination processes and chemistry is used to eliminate potentially dangerous solids, residual oils, and fouling from vessels including tanks, pipeline and heat exchangers.



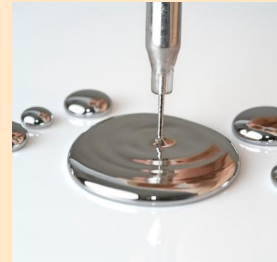
### INHIBITED ACID / CAUSTIC PASSIVATION AND PICKLING

We use our acid and alkaline products to clean surfaces with no residual surface contaminants while using selected inhibitors and continuous monitoring to ensure the preservation of the base material.



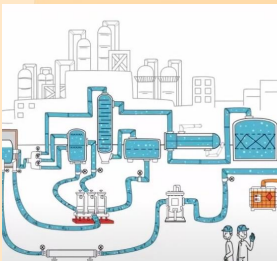
### PRE-COMMISSIONING AND DECOMMISSIONING CLEANING

Veolia works with our clients to understand their commissioning and decommissioning needs to develop bespoke solutions that are timely, cost effective and utilise the latest chemistry. Veolia provides end-to-end chemical cleaning and decontamination project management solutions.



### MERCURY DECONTAMINATION

The proper handling of mercury from LNG processing is essential to personnel and process safety. Veolia provides a suite of mercury handling services from qualified mercury testers, recovery, and proper disposal.



### COMMON CHEMICAL CLEANING APPLICATIONS:

- Boilers and turbines
- Condensers, compressor systems, heat exchangers
- Piping systems and process lines
- Struvite cleans (WWTP)
- FCC, crude and vacuum units, visbreaker units, aromatics units
- Amine regeneration systems
- Desalters



### HYDROCARBON FREEING AND DEGASSING

Statutory inspection and repairs require vessels to be degassed and cleaned before opening. Veolia uses proprietary chemistry to remove volatile hydrocarbon gases, H<sub>2</sub>S, and pyrophoric material, rendering the vessel safe for inspection and repairs.



### VEOLIA ALSO PROVIDES;

- Infield chemical analysis and testing
- High volume product transfer and filtration
- Specialist chemical supply

## GLOBAL KNOWLEDGE. LOCAL EXPERTISE.

Veolia is a global environmental services company, providing innovative environmental and industrial solutions to some of the region's largest industrial, mining, oil & gas, energy, and municipal organisations.

Our environmental solutions help address the challenges of your sector, including: increasing costs, fluctuating commodity demand and emerging competition, environmental and social responsibility, skills shortages, and new technologies.

### Veolia can provide you with:

- Security of supply.
- Flexible and highly skilled personnel.
- Technical innovation.
- Specialised and bundled service capabilities.
- Social licence to operate.

To learn more about our chemical cleaning, please visit us at [anz.veolia.com](http://anz.veolia.com)

