

# SARAMET® Acid Towers



Worley Chemetics' SARAMET® Acid Towers bring **state-of-the-art safety, reliability and superior performance** to our sulphuric acid plant customers in an economical and complete package.

## CUSTOM TOWER DESIGNS TO MATCH YOUR PLANT NEEDS

- Engineered designs achieve plant performance requirements in all operating modes.
- Customized SARAMET® metallurgy selected for each application (Dry, Inter, Final, ALPHA® or Oleum Towers).
- Robust gas inlet nozzle designs specific for each tower type are engineered to eliminate the potential of localized corrosion.
- Tailor-made mechanical designs are available for installation onto existing tower foundations/ support steel, or new foundations for reduced plant shutdown times on tower retrofit projects.
- Scope of supply ranges from detailed engineering and manufacturing drawings with material supply, to complete EPC.
- Full tower life cycle support is available from Chemetics, including technical and inspection services.

## ABOUT US

Sustaining our world for generations to come through technological and environmental innovation, Worley delivers Chemetics® sulphuric acid solutions around the globe with a focus on site reliability, plant economics and workforce development.

Over the past 60 years, Worley Chemetics' full lifecycle solutions and equipment have enabled more than 800 plants to achieve higher capacities and availability, lower costs of operation, reduced emissions and greater safety. Leveraging our R&D lab and custom-built fabrication facility in Canada, global logistics management capabilities, specialized project teams and worldwide network of trusted suppliers, we deliver optimal solutions and equipment for your sulphuric acid facility, from greenfield projects to maintenance and turnarounds.



## GET IN TOUCH

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## FEATURES & BENEFITS

**Precise SARAMET grade selection** – Worley Chemetics' multiple grades of SARAMET (23, 25, 35, HT™ and HT+™) for acid tower fabrication are specifically selected for each tower application, providing superior corrosion resistance and longer tower life.

**Dished or flat bottom designs** – The bottom of retrofit SARAMET alloy towers are custom designed to match the piping and dimensional configuration of the towers being replaced.

**Proprietary gas inlet nozzle designs** – Worley Chemetics' proprietary design of the Dry Tower gas inlet nozzle employs an inert PTFE nozzle insert, while Absorption Tower gas inlet nozzle designs are designed with a self cooling system. Both inlets are designed to prevent localized weak acid or oleum corrosion of the tower shell experienced in alternate metal tower designs.

**Packing support** – Worley Chemetics' Gas Injection type packing support results in a low pressure drop, high throughput support system. Packing support beams and support rings are designed to ensure maximum wetting and protection of the tower metal, reducing the potential of localized corrosion.

**316L stainless steel upper tower sections** – Worley Chemetics' SARAMET towers feature upper tower sections fabricated in SA-240-316L stainless steel for extended tower lower life.

**Mist eliminator support system** – For towers requiring the use of cylindrical BD or IC mist eliminator elements, Worley Chemetics mist eliminator support systems include 316L stainless steel pedestals. They are fabricated in structurally designed segments for easy installation, resulting in a strong and robust support system.

**Fabrication** – Key SARAMET tower components, including SARAMET acid distributors and gas injection packing supports, are fabricated in Chemetics state-of-the-art fabrication facility located in Pickering, ON, Canada. Bringing in-depth knowledge of fabricating SARAMET tower shells in a controlled shop environment, our experienced shop foreman and welders train local fabrication shops near you to ensure high-quality SARAMET welding is performed on your project.

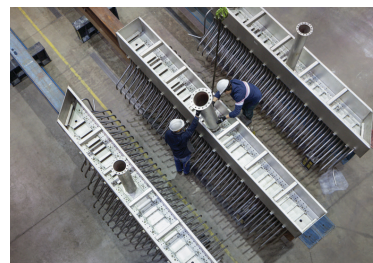


SARAMET® Absorber Tower Shop Lift

**Project support** – Worley Chemetics provides experienced project support, from the initial stages of tower process design through to tower start-up and operational support. With a focus on delivering superior performance, safety and maximum value to our clients, Worley Chemetics' skilled Technical Service representatives provide advisory services during tower site assembly, operation and internal inspections during plant turnarounds.



Three SARAMET® Towers Operating in an Acid Plant Installation in Central Africa



ISO-FLOW™ Distributor with SWIFT-LOCK™



Mist Eliminator Raised Flange Design



100% Open Gas Injection Packing Support