

Brick-Lined Acid Towers



Worley Chemetics' brick-lined acid towers bring **state-of-the-art safety, reliability and superior performance** to our sulphuric acid plant clients in an economical and complete package.

CUSTOM TOWER DESIGNS TO MATCH YOUR PLANT NEEDS

- Brick-lined towers that achieve plant performance requirements in all operating modes.
- Superior quality acid resistant multi layer brick-lining system and tower metallurgy.
- Dished bottom designs to eliminate brick heaving.
- Stable and robust design of the critical gas inlet nozzle.
- Self-supporting brick arch or SARAME[®] packing supports.
- Full scope of supply ranging from detailed engineering, fabrication drawings with material supply, through complete EPC.
- Project support starting with process design through fabrication, commissioning and tower start-up.
- Complete tower life cycle sustaining support 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

Brick-Lining Design

Worley Chemetics brick-lined tower systems employ multi-layer special shaped acid resistant bricks backed by inert PTFE membrane sheets and mastic. Leak free service for 25+ years is common.

Dished Bottom

Bricks are kept in compression via dished shape for the bottom of the tower. Eliminates brick heaving and resultant corrosion/sulphating of the tower bottom.

Gas Inlet Nozzle

Worley Chemetics' knee shaped design uses special shaped, thick bricks installed in multiple layers to produce a mechanically stable and robust gas inlet nozzle.

Packing Support

Ceramic acid tower packing is supported on a self-supported brick dome where most of the packing weight is transferred to the vessel wall and not to the critical tower base. SARAMET packing supports also are available.

Stepped Brick Corbel

Worley Chemetics' towers feature stepped brick corbels providing a stable system for Worley Chemetics' self-supporting ISO-FLOW® Trough Distributors. Brick corbels simplify distributor installation, eliminate the need for a hanger system and maintain clean access in the distributor area of the tower.

316L Stainless Steel Upper Tower Sections

Worley Chemetics' Brick-Lined Towers feature upper tower sections fabricated in 316L stainless steel for extended tower lower life.

Mist Eliminator Support System

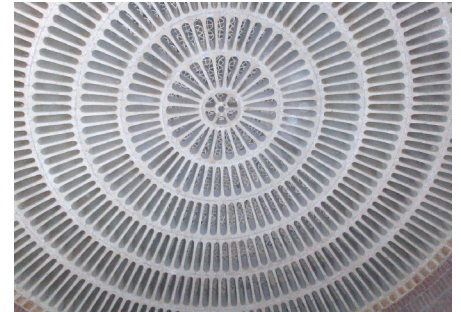
For towers requiring the use of cylindrical acid mist eliminator candles, Worley Chemetics mist eliminator support systems include 316L stainless steel pedestals installed on robust support system facilitating mist eliminator element installation, removal and maintenance.

Quality

Worley Chemetics high quality level is sustained by maximizing tower shell shop fabrication in a safe and controlled shop environment and by providing experienced personnel support during the brick-lining installation and tower internal installation periods.

Project Support

Worley Chemetics provides experienced support starting from the initial stages of tower process design through tower start-up and operation. Worley Chemetics' skilled Technical Service representatives provide advisory services during tower site assembly, operation and internal inspections during plant turnaround programmes. The result of our effort being brick-lined tower installations that provide our clients with superior performance, safety and maximum value.



Self supporting dome packing support



Worley Chemetics mitered gas inlet nozzle



ISO-FLOW® Trough Distributors with SWIFT-LOCK™