



**MECS® ZECOR® ALLOYS PROVIDE SUPERIOR CORROSION RESISTANCE IN A WIDE RANGE OF SULFURIC ACID CONCENTRATIONS, TEMPERATURES AND APPLICATIONS.**



*ZeCor® towers and pump tanks can be shop-fabricated prior to plant shutdown and staged onsite for insertion of Brink® mist eliminators, UniFlo® acid distributors and tower packing.*

## ZECOR® CORROSION-RESISTANT HIGH-PERFORMANCE METALS

### FEATURES AND BENEFITS:

- The mechanical corrosion properties of ZeCor® alloys are ideal for the fabrication of a wide variety of acid plant components
- ZeCor® alloys can be easily welded and repaired by trained, onsite plant personnel
- Proven welding process that uses ZeCor® filler wire. Welds are qualified to ASME code and section IX procedure and maintain full corrosion-resistant properties throughout
- ZeCor® alloys are available in a variety of thicknesses, allowing for customized equipment designs to accommodate differing corrosion requirements
- Lower total installed project cost and life cycle maintenance cost
- The process knowledge and experience of MECS, Inc. (MECS) engineers, combined with the corrosion-resistant properties of ZeCor® alloys, will ensure the best design for your acid plant application



**UNIFLO® ACID DISTRIBUTORS**



**ZECOR® TOWERS AND PUMP TANKS**



**BRINK® MIST ELIMINATORS**

# ZECOR® CORROSION-RESISTANT HIGH-PERFORMANCE METALS

## ZECOR® COMPONENTS

MECS offers a complete line of major components and maintenance upgrade accessories fabricated from ZeCor® alloys, including:

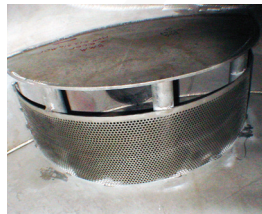
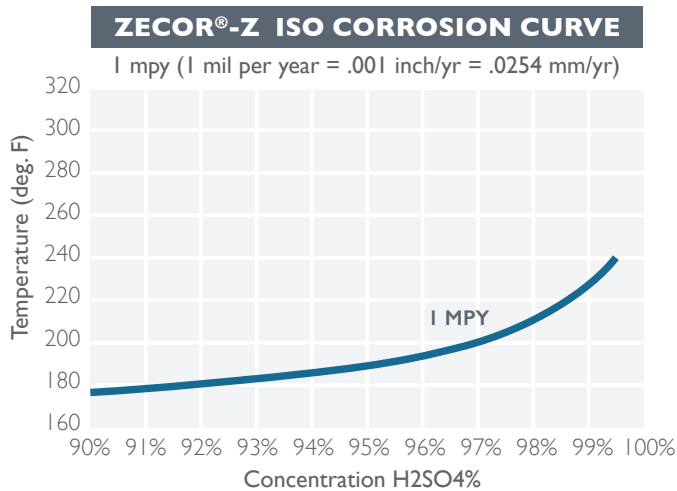
- Towers
- Piping systems
- Acid coolers
- Packing support grids
- Nozzle sleeves
- Outlet sleeves
- Orifice plates
- Pump tanks
- UniFlo® distributors
- TowerGARD® mesh pads
- Inlet acid strainers
- Outlet acid strainers
- Vortex breakers
- HRS™ equipment

These components can be fabricated from any of these high-performance metals, which include ZeCor®-Z and ZeCor®-310M. They are available exclusively from MECS.

A variety of acid plant maintenance and process items can be fabricated from ZeCor® corrosion-resistant, high-performance alloys.



ZECOR®-Z PROPERTIES	
<b>PHYSICAL PROPERTIES</b>	<b>MECHANICAL PROPERTIES</b>
Density = 0.275 lb/in <sup>3</sup>	Min. Yield Strength (0.2% offset) = 37.0 ksi
	Min. Ultimate Tensile = 78.0 Ksi
	Min. Elongation = 30%



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