

# MECS® ZECOR® CORROSION RESISTANT HIGH PERFORMANCE ALLOYS

Superior corrosion resistance in a wide range of sulphuric acid concentrations, temperatures and specific applications



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



UniFlo® acid distributors



ZeCor® towers and pump tanks



Brink® mist eliminators

## FEATURES AND BENEFITS

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

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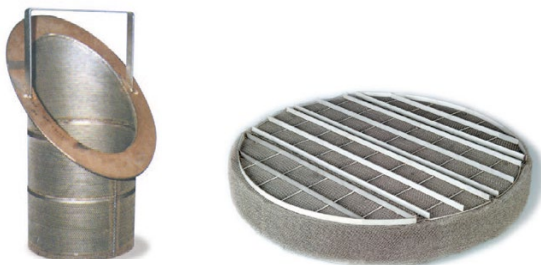
## ZECOR® COMPONENTS

MECS, Inc. (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, ZeCor®-310M, ZeCor®-310MT, ZeCor®-C, ZeCor®-CL and ZeCor®-CL29 alloys. 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

### PHYSICAL

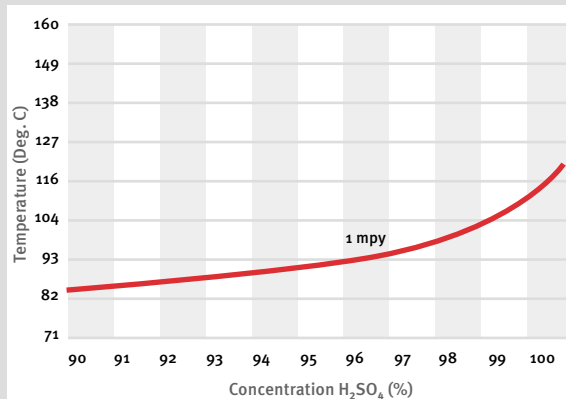
Density = 7.605 g/cm<sup>3</sup>

### MECHANICAL

Min. Yield Strength (0.2% offset) = 255 MPa  
Min. Ultimate Tensile = 538 MPa  
Min. Elongation = 30%

## ZECOR®-Z ISO CORROSION CURVE

1 mpy (1 mil per year = 0.001 inch/yr = 0.0254 mm/yr)



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