

ZECOR® CORROSION RESISTANT HIGH PERFORMANCE METALS



UNIFLO® ACID DISTRIBUTORS



ZECOR® TOWERS & 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 customized 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.

MECS DEVELOPED THE ZECOR® FAMILY OF ALLOYS FOR SUPERIOR CORROSION RESISTANCE IN A WIDE RANGE OF SULFURIC 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.

MECS®
ZECOR® ALLOY

www.mecs.dupont.com

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, ZeCor®-310M, ZeCor®-310MT, ZeCor®-C, ZeCor®-CL and ZeCor®-CL29. 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.



MECS®

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ZECOR®-Z PROPERTIES

PHYSICAL PROPERTIES

Density = 0.275 lb/in³

MECHANICAL PROPERTIES

Min. Yield Strength
(0.2% offset) = 37.0 ksi
Min. Ultimate Tensile = 78.0 Ksi
Min. Elongation = 30%

ZECOR®-Z ISO CORROSION CURVE

1 mpy (1 mil per year = .001 inch/yr = .0254 mm/yr)

