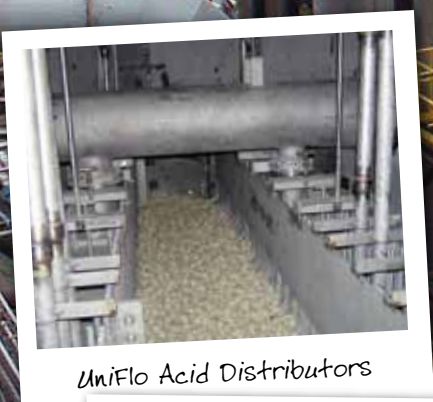


ENGINEERED ALLOY PRODUCTS

ZECOR® CORROSION RESISTANT HIGH PERFORMANCE METALS

MECS® developed the ZeCor® family of alloys for superior corrosion resistance in a wide range of sulfuric acid concentrations, temperatures and specific applications.



UniFlo Acid Distributors



Brink Mist Eliminators



ZeCor Towers and Pump Tanks

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.

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®

ZECOR® ALLOY

Learn more at www.mecs.dupont.com

ENGINEERED ALLOY PRODUCTS

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.



www.mecs.dupont.com

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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)

