MECS® ZECOR® CORROSION RESISTANT HIGH PERFORMANCE ALLOYS

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

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

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.
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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

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<tr>
<th>PHYSICAL</th>
<th>MECHANICAL</th>
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<tbody>
<tr>
<td>Density = 7.605 g/cm³</td>
<td>Min. Yield Strength (0.2% offset) = 255 MPa</td>
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<tr>
<td>Min. Ultimate Tensile = 538 MPa</td>
<td>Min. Elongation = 30%</td>
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ZECOR®-Z ISO CORROSION CURVE

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

DuPont Sustainable Solutions

CLEAN TECHNOLOGIES

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EMEA version.

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