

## MECS® ZECOR® SULPHURIC ACID PIPING SYSTEM

The ZeCor®-Z piping system sets the standard on prevention of leaks which means improved safety conditions and maximum on-stream time and reduced maintenance costs



### ZECOR®-Z = LOW CORROSION RATES + HIGH VALUE

Sulphuric acid piping systems are one of the most vulnerable components of an acid plant. Traditional technologies make use of iron, plastic lined or merchant grade stainless steels. These piping systems, particularly those made of ductile iron, are comprised of numerous flange connections that represent potential leakage points resulting in serious safety and environmental risks not to mention ongoing maintenance costs. Depending on the particular concentrations and temperatures, the corrosion rate for ZeCor®-Z alloy is less than 0.025 mm/yr in typical drying and absorbing tower circuits. The corrosion resistant ZeCor®-Z alloy piping system has numerous advantages in the areas of maintenance, reliability, safety, ease of installation and range of pipe sizes available from stock or custom sized to your project. The ZeCor®-Z alloy piping system combines the best in process knowledge, materials technology, quality systems and fabrication techniques. These practical advantages convert to real economic benefits to acid plant owners and operators.

### FEATURES AND BENEFITS

*When compared to other piping systems, the ZeCor®-Z sulphuric acid piping system offers:*

- Long life, even at higher acid velocities, due to very low corrosion rates
- More efficient plant operations with cleaner acid from the dramatic reduction in iron sulphates
- Less expensive installation, because of the lighter weight of the welded ZeCor®-Z piping system and the pipe spools are physically easier to handle in the field
- Safer, cleaner plant operations result from fewer potential leakage points as welded joint replaces traditional use of flanges
- Significantly reduced inventory quantities and space associated with spare pipe spools and fittings
- The fully welded, light weight system makes it easier to install, field modify and handle by maintenance personnel



ZeCor® piping system

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### MECS SULPHURIC ACID EXPERIENCE – UNMATCHED WORLDWIDE

Since 1927, MECS, Inc. (MECS) has offered process technology and high performance products for the sulphuric acid industry. The solutions MECS offer benefit greatly from our many years of overall acid plant design and construction experience. The breakthroughs in specialty materials like ZeCor®-Z alloy result from extensive corrosion and workability tests which MECS has conducted in the field in real world conditions. MECS has sales and engineering offices worldwide to assist you in choosing these proven, dependable and cost effective solutions to your acid piping needs.

### FULL RANGE OF ZECOR®-Z PIPE, FITTINGS AND ACCESSORIES

The following acid piping system components are available:

- Pipe 25 mm to 600 mm nominal diameters (larger sizes available on request)
- Normal fittings include 90° and 45° long radius elbows, concentric and eccentric reducers, equal and reducing tees, and face rings
- On request, stub ends, nozzle sleeves, acid strainers, vortex breakers and orifice plates will be custom fabricated.



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